

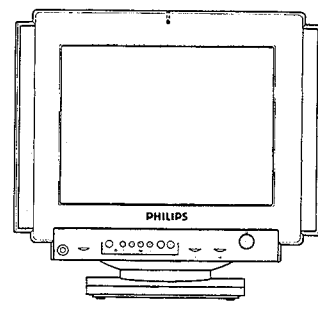
15" Auto scan Colour Monitor

Chassis

Service
Service
Service

CM1200

DDC/Audio/Power saving/Tilt correction



TY 00

Service Manual

Horizontal frequencies
24 - 64 kHz

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**PHILIPS**

Technical data

General

- Mains voltage : 195-264 VAC / Europe
90-132 VAC / USA
90-264 VAC / full range
- Mains frequency : 47-63 Hz
- Power consumption : 85 W (typical)
100 W (max)
- Operating temperature : 0 °C to 40 °C
- Weight : 13 kg
- Dimension (WxHxD) : 404 x 334 x 398 mm

Sync. signal

- Sync. polarity : Positive or Negative
- Vertical frequency : 50 - 110 Hz
- Horizontal frequency : 24 - 66 kHz

Image geometry

- Total geometrical distortion of the image (pincushion and barrel distance) : 2.5 mm max.
- Horizontal tilt (rotation) : ≤ 2 mm
- Image non-linearity : 10 % max. horizontal
10 % max. vertical
5 % max. adjacent
24 % max. (24.8 khz mode)

Picture tube

- Size : 15 inch
- Light transmission : 57 %
- Deflection angle : 90 degrees
- EHT voltage : 24.5 +/- 1.0 kV
- Pitch : 0.28 mm
- Phosphor : P22 medium short

Video

- Dot rate : 110 MHz
- Video signal : 0.7 Vpp linear/75 ohm
- Image size : 260 +/- 3 mm x 195 +/- 3 mm
- H-Shift range : 10 mm min.
- V-Shift range : 10 mm min.

Resolution and sync. polarities of factory pre-set modes

Mode ID	Mode	Resolution	Horizontal	Vertical	Remark	Sync.	Pol.
		(dots x line)	Freq. (kHz)	Freq. (Hz)		H	V
-	VGA	640 x 400	31.5	70	Non-interlaced	-	+
-	VGA	640 x 480	31.5	60	Non-interlaced	-	-
-	VGA	640 x 480	37.5	75	Non-interlaced	+/-	+/-
-	MAC	640 x 480	35.0	67	Non-interlaced	-	-
-	VESA	800 x 600	35.2	56	Non-interlaced	+/-	+/-
-	SVGA	800 x 600	46.9	75	Non-interlaced	+/-	+/-
-	VESA	800 x 600	48.0	72	Non-interlaced	+	+
-	MAC	832 x 624	49.7	75	Non-interlaced	-	-
-	VGA	640 x 400	24.8	56	Non-interlaced	+	+
-	SVGA	1024x 768	48.3	60	Non-interlaced	+/-	+/-
-	VESA	1024 x 768	56.4	70	Non-interlaced	+/-	+/-
-	SVGA	1024x 768	60.0	75	Non-interlaced	+/-	+/-
-	SVGA	1280x1024	63.8	60	Non-interlaced	+/-	+/-


Power Management

Power Management Definition						
VESA DPMS				Power Saving Status		
Mode	Video	H-Sync	V-Sync	Power Used	Power Saving	LED color
ON	Active	Yes	Yes	100 Watts	0 %	Green
Stand-by	Blanked	No	Yes	< 15 Watts	> 82 %	Yellow
Suspend	Blanked	Yes	No	< 15 Watts	> 82 %	Yellow
OFF	Blanked	No	No	< 5 Watts	> 94 %	Amber

Note: The video will be blanked and the power LED color will change into following colors whenever the monitor goes into power management status.

This monitor is Energy Star compliant when used with a computer equipped with DPMS.

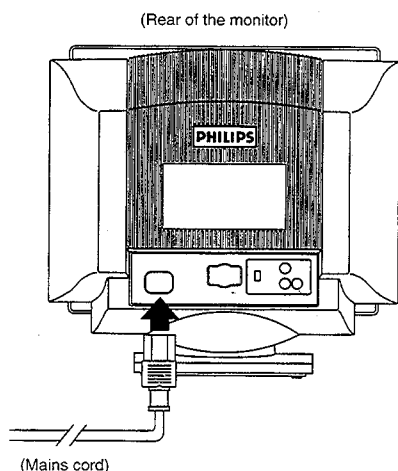
PHILIPS is a partner in the EPA's Energy Star Computer Program.



2. Connection facilities and control functions

CM1200 15A

1. Connection to the mains



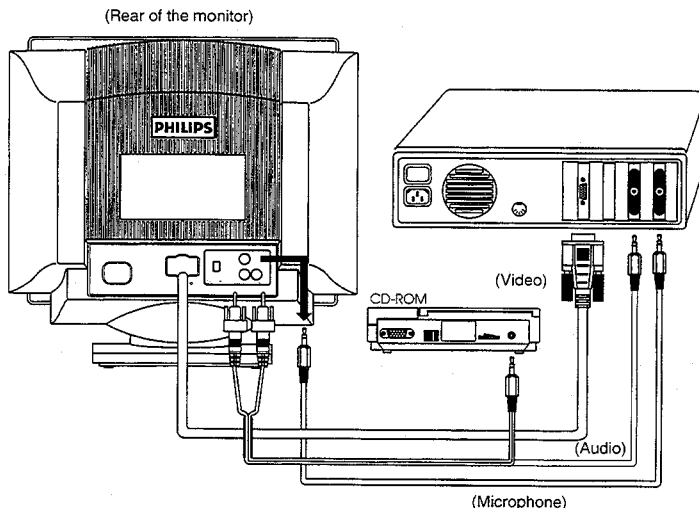
This monitor is set to operate at a mains supply of 100-240 volts AC(15A1222W); 220-240 volts AC(15A12228). If the Mains voltage in your home is different from this, consult your dealer. Connect one end of the mains cord to the mains socket at the rear of monitor, and the other end to the mains supply.

2. Connection to the computer

NOTE: Please be sure the AC power to your computer is "OFF" before connecting or disconnecting any display peripheral. Failure to do so may cause serious personal injury as well as permanent damage to your computer equipments.

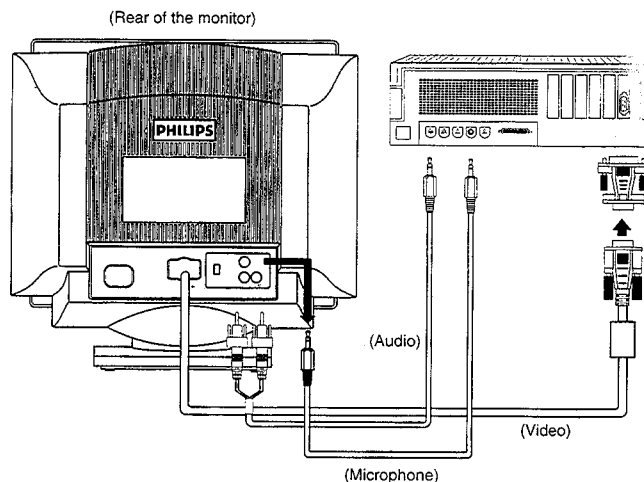
2. IBM PC, PC/XT, PC/AT, PS/2, or the compatibles:

- Connect the fixed 15-pin D-sub connector of the video signal cable to the computer at the video connector on the video card, and fix it firmly with the screws on the plug.
- Connect the audio cable to the input of audio connector, which located at the rear of monitor according to the following:
 - The red audio plug should be connector to the red audiophone connector.
 - The white audio plug should be connector to the white audiophone connector.
- Connect the other end of audio cable to the audio connector of media card at the rear of computer or CD-ROM according to the preceding description.
- Connect one end of the microphone cable (pulg with RCA type) to the microphone connector at the rear of the monitor.
- Connect the other end of the microphone cable (mini jack plug) to the microphone connector at the rear of the computer.
- Be sure that the "TTL/SOG" switch at the rear is in the "TTL" position.



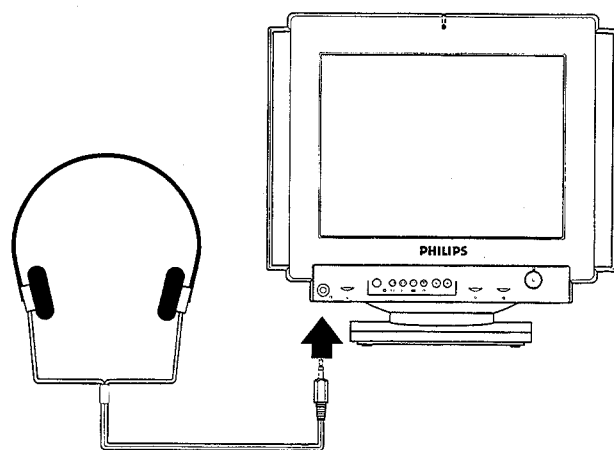
2.2 Apple Macintosh series:

- Connect the 15-pin D-sub adapter to the signal cable and by screws.
- Connect the 15-pin D-sub adapter to the computer.
- Fix both screws of connector firmly.
- Connect one end of audio cable(plug with RCA type) to the connectors at the rear of monitor according to the preceding description.
- Connect the other end of audio cable (mini jack plug) to the connector at the rear of computer.
- Connect one end of the microphone cable (pulg with RCA type) to the microphone connector at the rear of the monitor.
- Connect the other end of the microphone cable (mini jack plug) to the microphone connector at the rear of the computer.

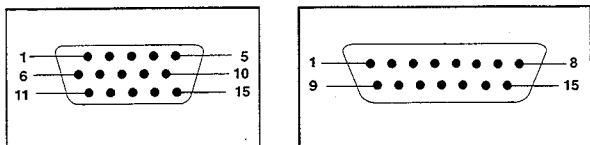


2.3 Earphone Connection:

- Connect your earphone plug (must be minitype)to the earphone connector at the front panel of the monitor.
- The speakers will be switched off when earphone is plugged in.



3. Pin assignment 15 p "D" shell (3 and 2 rows)



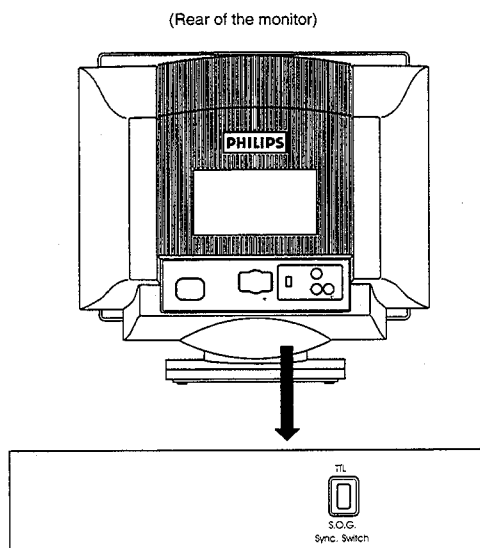
3.1 The 15 pin D-sub connector (male) of the signal cable (IBM system)

Pin No.	Assignment	Pin No.	Assignment
1	Red video input	8	Blue video ground
2	Green video input	9	No pin
3	Blue video input	10	Logic ground
4	Identical output connected to pin 10	11	Identical output connected to pin 10
5	Ground	12	Serial data line (SDA)
6	Red video ground	13	H. sync / H+V
7	Green video ground	14	V. sync (Vclk for DDC)
		15	Data clk line (SCL)

3.2 The 15 pin D-sub connector (male) of the adapter (Apple Macintosh system)

Pin No.	Assignment	Pin No.	Assignment
1	Red ground	8	Not connected
2	Red video	9	Blue video
3	Composite sync, H+V	10	Sense 2
4	Sense 0	11	Composite sync & V. sync ground
5	Green video/S.O.G	12	V. sync
6	Green ground	13	Blue video ground
7	Sense 1	14	H. sync ground
		15	H. sync

4. Rear locations and functions




- Switch to " TTL " if IBM PC compatible system is connected.
 - Switch to " S.O.G. " if a sync on green system is connected.
- Remark : Incorrect setting may result into unstable or unsynchronized picture.

IBM is the trade mark of International Business Machines Corporation.

Warning and Notes

1. Safety Instructions for Repairs

1.1 Safety regulations require that during a repair:

- The set should be connected to the main via an isolating transformer.
- Safety components, indicated by the symbol , should be replaced by components identical to the original ones.
- When replacing the CRT, safety goggles must be worn.

1.2 Safety regulations require also that after a repair.

- The set should be returned in its original condition.
- The cabinet should be checked for defects to avoid touching, by the customer, of inner parts.
- The insulation of the mains lead should be checked for external damage.
- The mains lead strain relief should be checked on its function.
- The cableform and EHT cable are routed correctly and fixed with the mounted cable clamps in order to avoid touching of the CRT, hot components or heat sinks.
- The electrical resistance between mains plug and the secondary side is checked. This check can be done as follows:
 - * Unplug the mains cord and connect a wire between the two pins of the main plug.
 - * Switch on the monitor with the main switch.
 - * Switch off the monitor and remove the wire between the two pins of the mains plug.
 - * Thermally loaded solder joints should be resoldered. This includes components like LOT, the line output transistor, flyback capacitor.

2. Maintenance Instructions

2.1 It is recommended to have a maintenance inspection carried out periodically by a qualified service employee.

2.2 The interval depends on the usage conditions.

- When the set is used in a living room the recommended interval is 3 to 5 years. When the set is used in the kitchen or garage this interval is 1 year.
- During the maintenance inspection the above mentioned "safety instructions for repair" should be carried out. The power supply and deflection circuitry on the chassis, the CRT panel and the neck of the CRT should be cleaned.

3. Warning

3.1 In order to prevent damage to ICs and transistors, all high voltage flash-overs must be avoided. In order to prevent damage to the picture tube, it should be discharged using the method shown in Fig 3.1. Use a high-voltage probe and a multimeter (position DC-V). Discharge until the meter reading is 0V (after approx 30s).

3.2 ESD

All ICs and many other semiconductors are sensitive to electrostatic discharges (ESD). Careless handling during repair can drastically shorten their life. Make sure that during repair you are connected by a pulse band with resistance to the same potential as the earth of the unit. Keep components and tools also at this same potential.

3.3 Be careful when taking measurements in the high voltage section and on the picture tube.

3.4 Never replace modules or other components while the unit is switched on.

3.5 When making settings, use plastic rather than metal tools. This will prevent any short circuits and the danger of a circuit becoming unstable.

3.6 After repair the wiring should be fastened once more in the cable clamps for this purpose.

3.7 In order to prevent measuring errors, the heat sinks should not be used as reference points for measurements.

3.8 Together with the deflection unit and any multipole unit the flat square picture tubes used form an integrated unit. The deflection and the multipole units are set repair is therefore not recommended.

3.9 The high-voltage cable in 21" units is glued in the line output transformer. This can therefore not be replaced.

4. Notes

4.1 The picture tube has been adapted printed spark gaps. Each spark gap is connected between an electrode of the picture tube and the Aquadag coating.

4.2 The semiconductors indicated in the circuit diagram(s) and in the parts lists are completely interchangeable per position with the semiconductors in the unit, irrespective of the type indication on these semiconductors.

4.3 The connectors used for the modules (board to board) are gold-plated and should only be replaced by the same type.

4.4 In the case of fault finding and/or repair to the teletext module, the accessibility of the circuit and the components can be increased by using extension cards. The order numbers of these extension cards are:

* 6 times: 4822 395 30259

* 8 times: 4822 214 31402

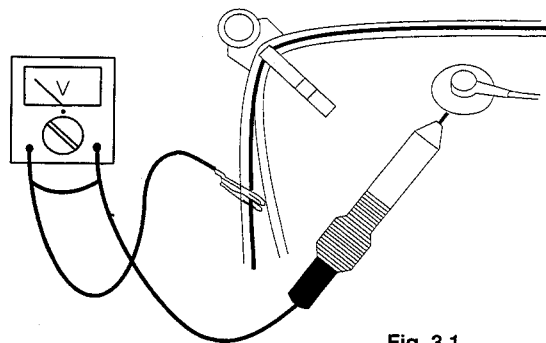
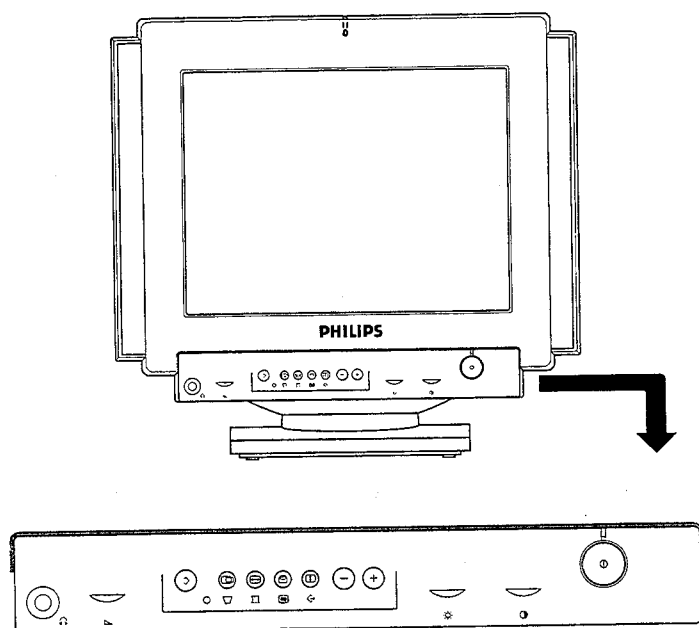


Fig. 3.1



For an optimized adjustment of the picture following controls are available at the front.

① POWER

- Press this knob, the green LED lights and the power is on.
- Press this knob again, the green LED disappears and the power is off.

② CONTRAST

- Used to adjust the picture contrast level.

☀ BRIGHTNESS

- Used to adjust the overall screen brightness as a compensation for ambient light.

"+" or "-"

- Press "+" or "-" to adjust the selected function.

◇ SHIFT key

- To selected the level of function.

"shift"LED off - Control is on first level

"shift"LED on - Control is on second level

First level of the function pads:

- ⏮ H-Shift : to adjust the horizontal position of the image.
- ⏭ H-size : to adjust the horizontal amplitude of the image.
- ⏮ V-shift : to adjust the vertical position of the image.
- ⏭ V-size : to adjust the vertical amplitude of the image.

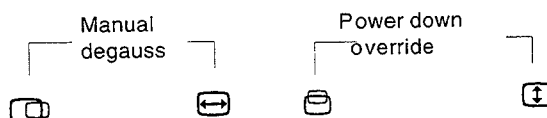
Second level of the function pads:

- ▽ Trapezoid : to correct the trapezoid distortion of the image
- ▭ Pincushion : to correct the barrel distortion of the image
- ⌂ Rotation : to correct the picture tilt caused by earth magnetic field influence
- ↺ Recall : to recall original factory preset mode

Double-key functions :

Manual degauss : Press H-shift and H-size pads simultaneously

Power down override: Press V-shift and V-size pads simultaneously



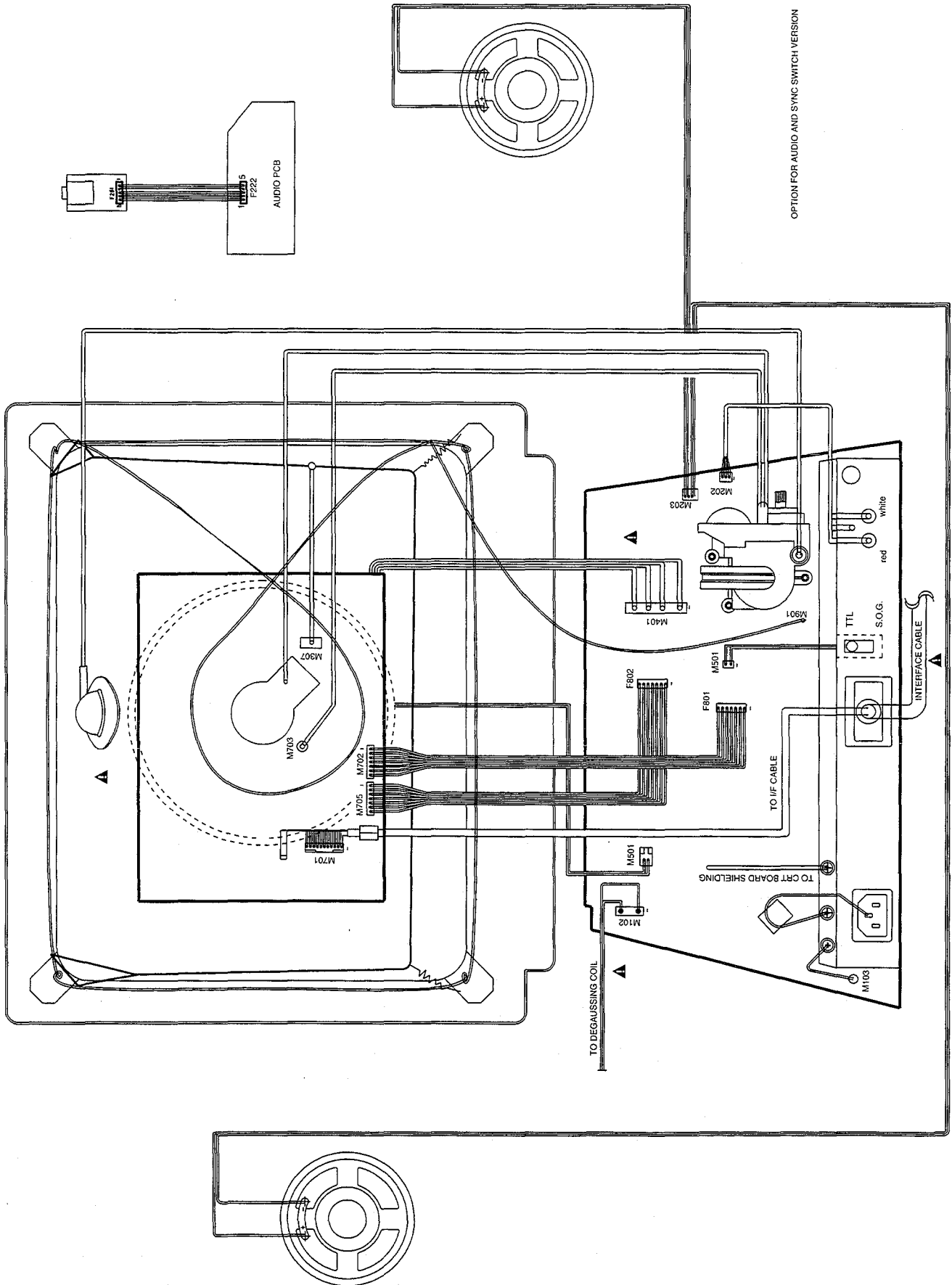
△ VOLUME.

Used to adjust audio volume.

Remarks:

1. When pressing any function pad, the "shift" LED will flash once to indicate the function has been selected.
2. Once the limite of the adjustable range has been reached, the "shift" LED will flash continuously.
3. The power down override function will be reset whenever the monitor is switched off.
4. When pressing any function pad under power saving status, the set will recover temporarily (around 10 seconds), to indicate the set is in functional status.
5. Any change in rotation setting will influence all video modes.

5. Wiring Diagram



0. General

To be able to perform measurements and repairs on the "circuit boards", these unit should placed in the service position first.

1. Video panel

- Remove the rear cover (4 screws).
- Remove the metal shielding on rear side of Video panel by desolder 5 lags.

2. Main panel

- Remove the rear cover (4 screws).
- Disconnect the degaussing coil from Main PCB.
- Remove the video panel from CRT.
- Disconnect the I/F cable from metal bracket.
- Remove the earphone panel from front cabinet.
- Slide the main panel out of bottom plate.
- Place Main panel in service position as shown in Fig. 1.
- Mount Video panel again on CRT.

3. Remark

1. Extension cables is required for the service position of the main panel.
 - 4822 321 61698 (2p to 2p cable to degaussing coil).
 - 4822 321 61699 (2p tp 2p extension cable to speaker).

4. Adjustment locations

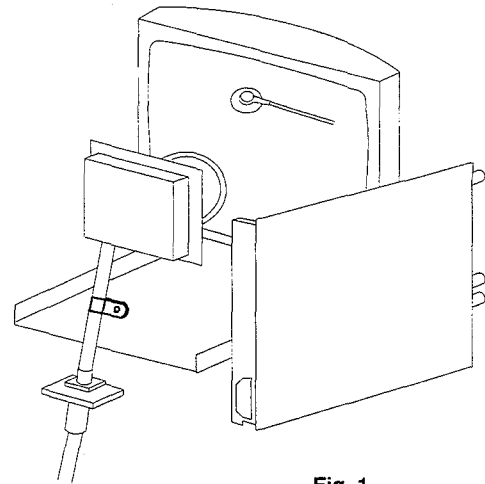
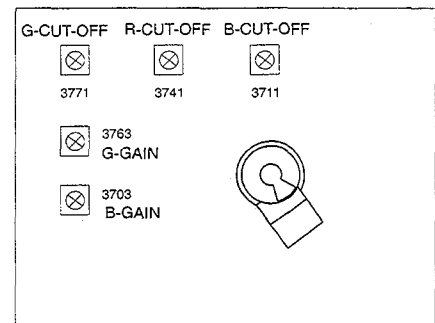
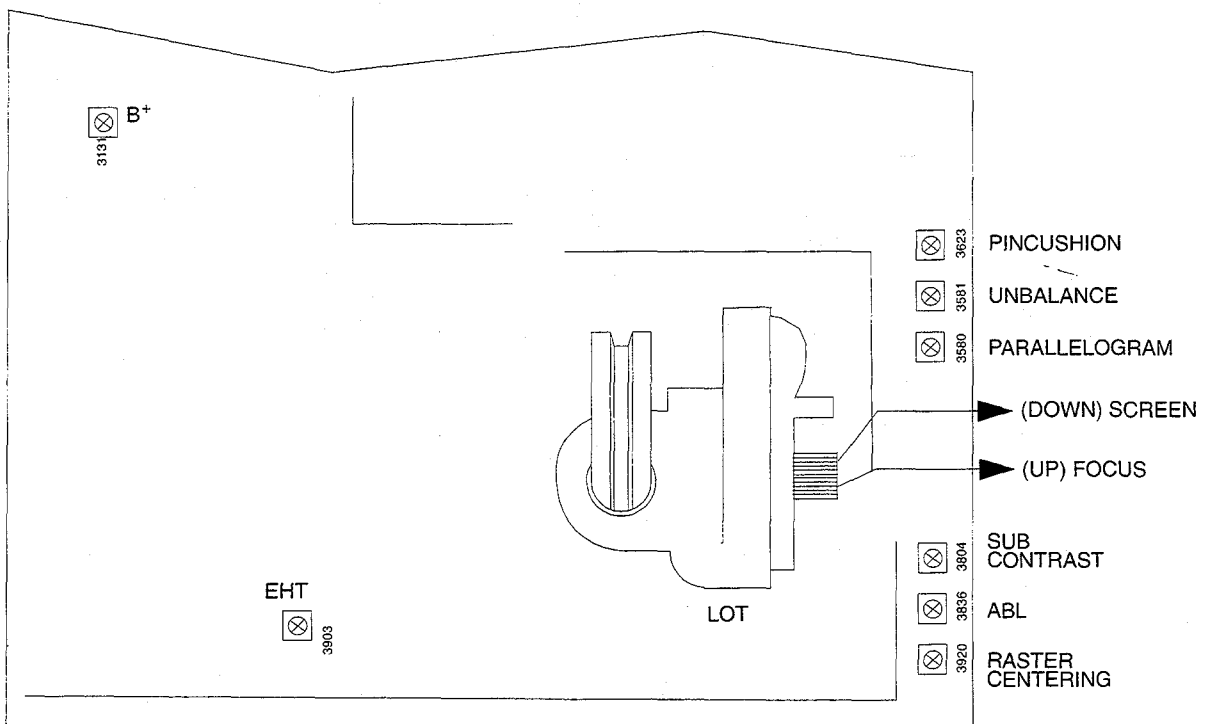


Fig. 1



VIDEO BOARD



MAIN BOARD

- Adjust VG2 pot-meter to increase VG2 until any color among red, green, and blue becomes "just visible".
- Adjust the pot-meters of the "two remaining" colours (3771, 3741, 3711) to the same light output level, so that an optimal background (raster) colour is obtained.
- Adjust brightness front control 3818 to maximum for double-checking the background (raster) colour.
- Apply "full white" pattern.
- Set brightness front control 3818 to center position, contrast front control 3805 to maximum and sub-contrast 3804 and ABL 3836 to mid-position.
- Adjust pot-meter 3763 and 3703, so that an optimal display colour (white "D") is obtained.
- Apply text pattern, and adjust sub-contrast 3804 for clear characters without blooming.
- Adjust contrast control 3805 to maximum, for double-checking the displayed colour.

6. Focusing

- Apply a video signal ("M" or "@" characters) in the 1024 x 768 with 48.3 kHz/60 Hz mode.
- Set brightness front control 3818 to center position and contrast front control 3805 to maximum.
- Adjust focus pot-meter (top knob on the line output transformer) so that the picture at 2/3 of the diagonal lines (from center to four corners) of this displayed screen is as sharp as possible.

7. DDC data re-programming

7.1 General

In case the DDC data memory IC, replaced due to a defect the data contents of this IC have to be re-programmed via a PC.

In case of replacement of the video board it is advised to re-soldered DDC IC from the old board onto the new board, in this case the IC does not need to be re-programmed.

2. PC system and O/S requirements

- IBM PC compatible, PC 386 and above are recommended.
- DOS 6.0 or above is recommended.
- DDC re-programming kit (4822 727 21032).

3. Software requirements

Floppy disk with the following programs:

- DDC.EXE
- Data text file (eg. BND14PHL.TXT)

This floppy disk is available upon request from your local Philips service support centre.

DDC.EXE is recommended to be used under DOS environment, when your system with "WINDOWS 95", it can be bypassed by pressing hot key "F4" during booting.

4. Data text file editing options

The data text file can be edited by the DOS-editor.

5. Re-programming instructions

- Connect the module to the PC and monitor, see connection figure on front page.
- Insert the floppy disk into drive A: and follow the following routine:
- Type "DDC" and then give "ENTER". On top of the screen it will show: "Adaptor check...", then the screen will now show "main menu".
- Using digits keys to select functions 1, 2, 3, 4, 5:
- Key in "1" to convert a text data into EDID data.
- Enter the text file name with directory path eg. "a:\CM0200\BND14PHL.TXT" and give "ENTER"

The available text file on the floppy will now be converted into a binary file that can be downloaded into the memory IC.

- Give "ENTER" to continue, the program will return to main menu.
- Key in "2" under the main menu to write a complete EDID data file to EEPROM. Now, the data will be loaded into the memory IC.
- Give "ENTER" to continue, the program will return to main menu.
- Key in "3" under the main menu to verify that EDID downloading is successful. This function also can be used to view current DDC data in monitor.
- Give "ENTER" 5 times (typical) to return main menu.

- Key in "4" under the main menu to enter DOS prompt and DOS Editor of your system. By DOS Editor, the function allow you to modify or update DDC data eg. manufacturing week, serial number etc according to the rear cover type label of the set.

The production serial number of type label consist of:

TY - origin of production centre
00 - technical service change code
95 - production year
12 - production week
123456 - 6 digits (max) serial number

Once the modification of DDC text file is available under DOS Editor, Quit to DOS prompt and return to main menu by pressing "EXIT" and giving "ENTER".

After text file modification as above description, you can repeat the process of function 1 (item 1) to function 3 (item 3) to re-program DDC data again.

- Key in "5" under the main menu to quit DDC program and return to DOS prompt.

6. Remark:

During the re-programming, step by step operation for function (1) to function (3) is recommended.

Due to different format requirement by customer, If read DDC data from function (3) for normal set, product ID and serial number will show 3 formats, <decimal>, <hexa-decimal>, and <ASCII>, the correct format can be obtained by running function (1) again (the correct format can be detected and justified automatically by function 1 from original text file).

0. General:

When carrying out the electrical setting, in many cases a video signal must be applied to the monitor. A computer with:

- "ATI VGA1024 V6-1.04/PH BETA 4" interface card
- PGA1024 (4822 212 30916)
- PGA1280 (4822 212 30917)

are used as the video signal source. The signal pattern are selected from the "service test software" package. see user guide 4822 727 19896 (ATI 1024), or 4822 727 20273 (PGA 1280).

0.1 With ATI card:

- Installation instruction for the ATI card:
- Place the ATI interface card into the computer.
- Select the "vsetup" file from the utility disk belonging to the card.
- Select "8 bits" or "16 bits" rom operation depending on your computer type.
- Select "analog monitor".
- Select the monitor type from video ROM BIOS.
- Select "MAGNAVOX CM5000" for the resolutions:

640 x 350 31.5 kHz/70 Hz
 640 x 400 31.5 kHz/70 Hz
 640 x 480 31.5 kHz/60 Hz
 640 x 480 37.5 kHz/75 Hz
 1024 x 768 48.3 kHz/60 Hz
 1280 x 1024 63.8 kHz/60 Hz(PGA1280)

- Reboot your computer, again.
- Put the floppy diskette containing the service test software package in the computer and select the test pattern indicated for the service setting.

0.2 With normal VGA card:

If not using the ATI card during repair or alignment, The service engineer also can use this service test software adapting with normal standard VGA adaptor and using standard VGA mode 640 x 480, 31.5kHz/60Hz (only) as signal source.

0.3 AC/DC measurement:

The measurements for AC waveform and DC figure is based on 640 x 480 (31.5 kHz/ 60 Hz) resolution mode with test pattern gray scale.

1. B+ Supply voltage (3131), 70.5v DC

- Set the brightness front control 3818 and the contrast front control 3805 to minimum.
- Set the trimming pot-meters 3131/3903 in the mechanical mid-position (this is a pre-setting).
- Connect a DC voltmeter between capacitor 2156 joint and ground.
- Switch on the monitor.
- Apply a video signal in the 640 x 480 with 31.5 kHz/60 Hz mode.
- Select the "crosshatch" pattern.
- Adjust trimming pot-meter 3131 until the DC voltmeter reads 70.5V +/- 0.2V.

2. EHT voltage (3903)

- Connect a dc voltmeter between capacitor 2905 joint and ground.
- Apply a video signal in the 640 x 480 with 31.5 kHz/60 Hz mode.
- Select the "crosshatch" pattern. Adjust trimming pot-meter 3902 until the DC voltmeter reads :
 1. 68.5V +/- 0.2V. (for MEC and TOSHIBA tubes)
 2. 66 +/- 0.2v. (for PHILIPS tube)

3. Horizontal raster centering (3920)

- Apply 60.023 kHz 1024 lines crosshatch pattern. Chroma 2000 for 60.03 kHz / 75 Hz timing chart

	Horizontal	Vertical
Frame border	0	0
Total size	16.660 us	13.328 ms
Display size	13.003 us	12.795 ms
Rear porch	2.235 us	0.466 ms
Sync width	1.219 us	0.050 ms
Sync polarity	+	+

- Adjust pot-meter 3920 for the correct horizontal center of the whole raster.

4. Picture geometry setting for factory pre-set mode

4.0 General

- Pre-set contrast front control 3805 and brightness front control 3818 to mid-position.

4.1 48.3 kHz 1024 lines mode

(apply crosshatch pattern in 1024 x 768 with 48.3 kHz/60 Hz mode)

4.1.1 Horizontal phase center (by key pads)

- Set the horizontal phase center.

4.1.2 Horizontal width (by key pads)

- Adjust the picture width to 260 mm.

4.1.3 Vertical center (by key pads)

- Set the vertical center.

4.1.4 Vertical height (by key pads)

- Adjust the picture height to 195 mm.(208mm for 64kHz mode)

4.1.5 Tilt correction (by key pads)

- Adjust the picture tilt for correct top/bottom lines.

4.1.6 East-west correction (3623)

- Adjust pot-meter 3623 until the vertical lines on the left and right sides of the screen are as straight as possible.

4.1.7 Parallelogram (3580)

- Adjust pot-meter 3580 until the vertical lines on the left and right sides of the screen are as straight as possible.

4.1.8 Unbalance pin (3581)

- Adjust pot-meter 3581 until the vertical lines on the left and right sides of the screen are as straight as possible.

4.1.9 Save the alignment data (by key pads)

- Store the preset result by pressing the store key.(shift-vsize)

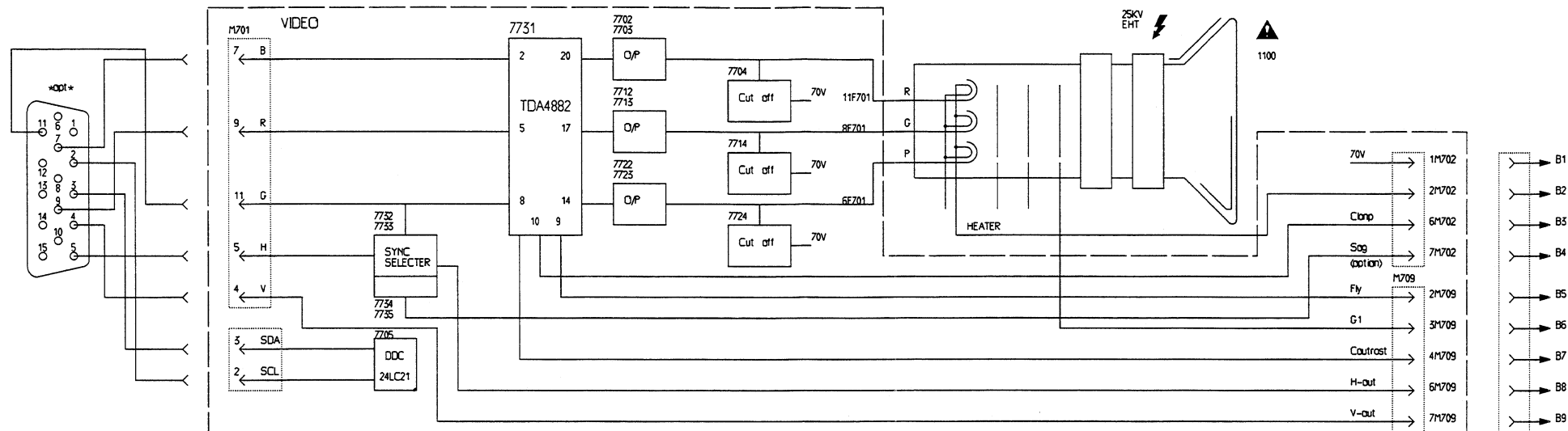
4.2 The other modes

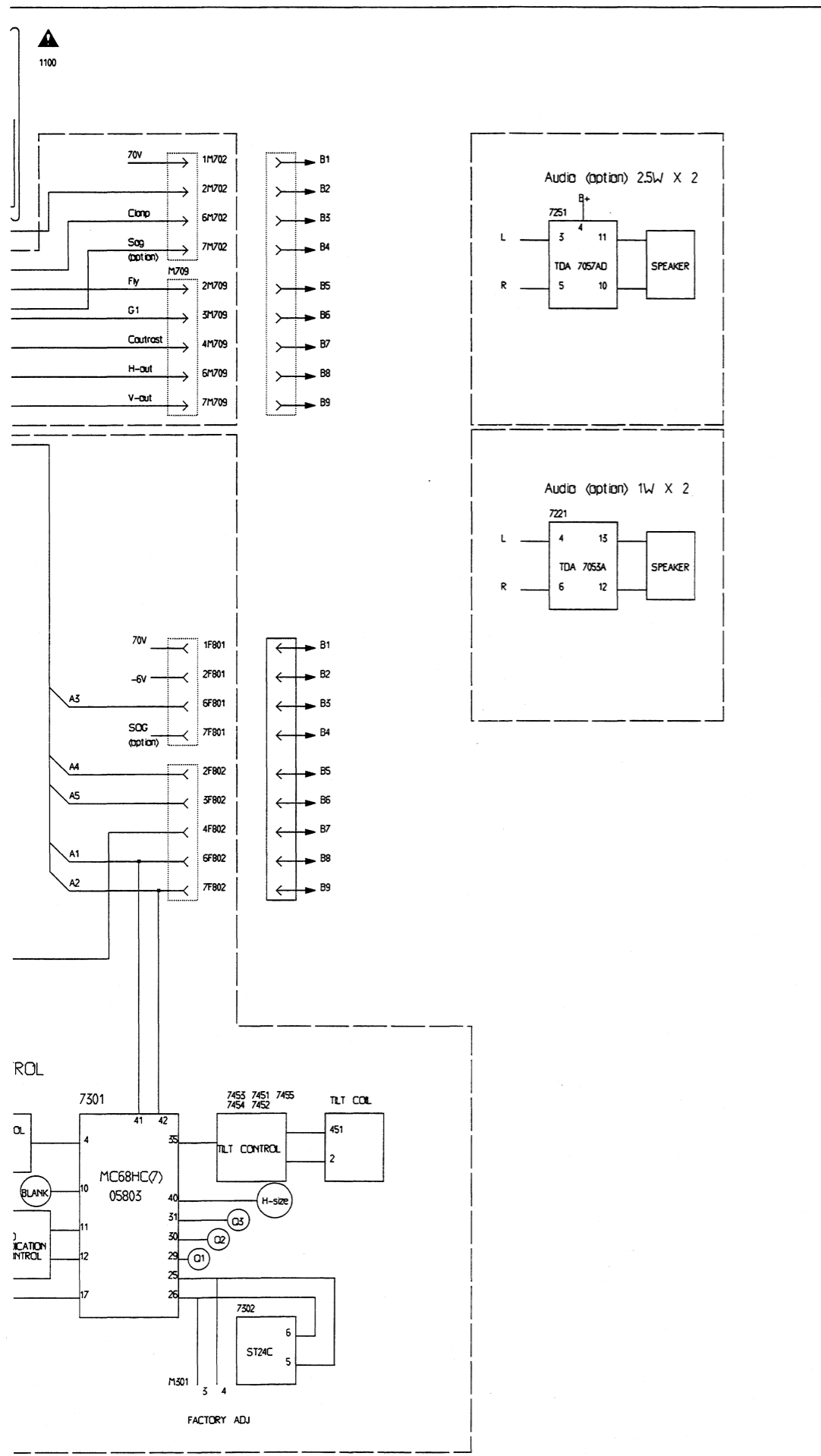
- Repeat the procedure 4.1.1 to 4.1.5 and 4.1.9 until all the preset timing has been adjusted completely.

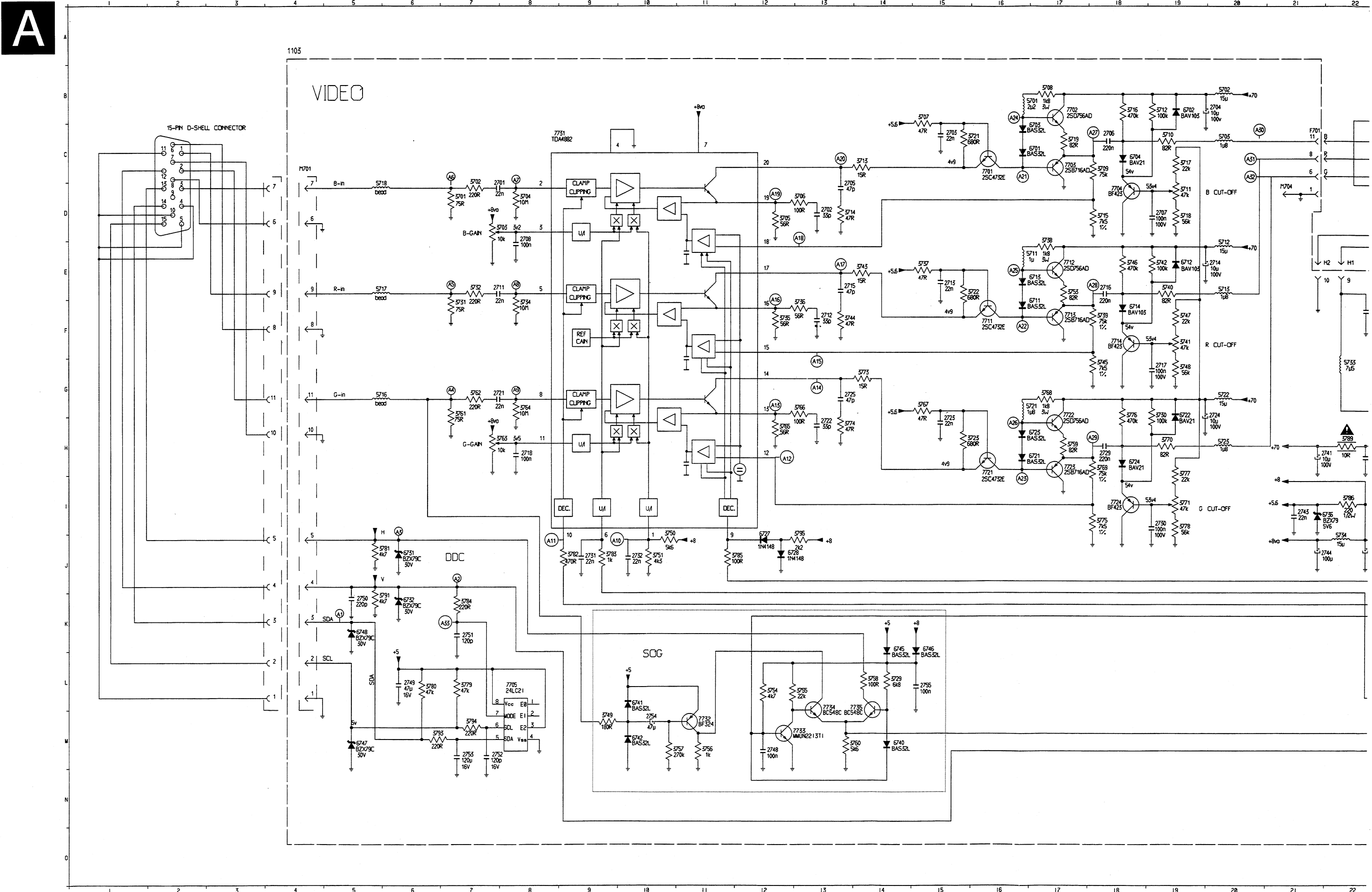
5. Alignments of:

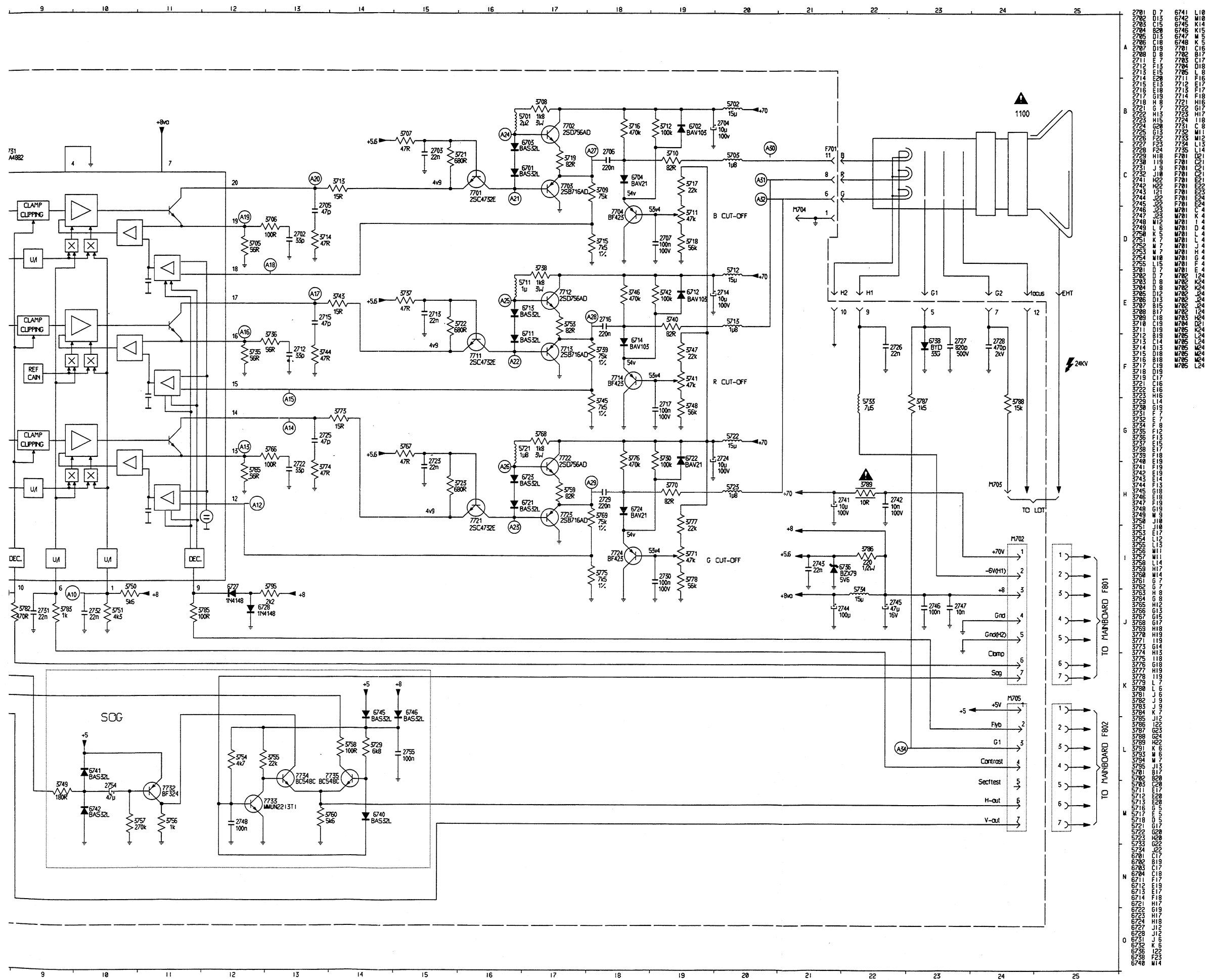
- * VG2 (bottom knob on the line output transformer)
- * Cut-off points of the picture tube (3771, 3741, 3711)
- * White "D" (3703, 3763)

- Pre-set gain control pot-meters 3763,3703 to the mid-position , cut off control pot-meters 3741,3771and 3711 to fully counterclockwise ,sub-contrast control pot-meter 3804 and ABL control pot-meter 3836 also should be at center position as well.
- Apply a video signal (full white or black) in the 640 x 480 with 31.5 kHz/60 Hz
- Set brightness front control 3818 at center position.
- Set contrast front control 3805 to maximum.
- Set VG2 pot-meter (on the line output transformer) to minimum.

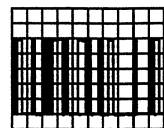




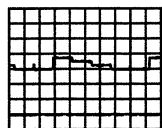




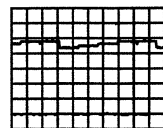
A1 6748-K

1V/div AC
0.1s/div

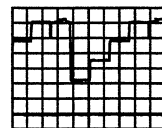
A9 7731-8

1V/div AC
5s/div

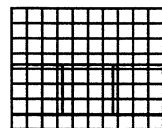
A17 7731-17

1V/div AC
5s/div

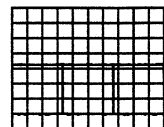
A25 7712-B

10V/div AC
5s/div

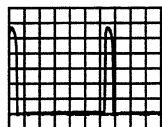
A33 7705-7

1V/div AC
5ms/div

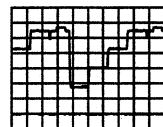
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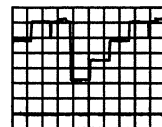
A10 7731-10

1V/div AC
5s/div

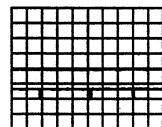
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1V/div AC
5s/div

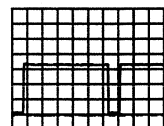
A26 7722-B

10V/div AC
5s/div

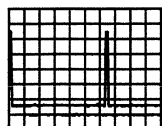
A34 M702-3

50V/div AC
5ms/div

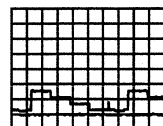
A3 M701-5

1V/div AC
5s/div

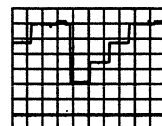
A11 7731-10

1V/div AC
5s/div

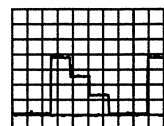
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1V/div AC
5s/div

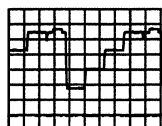
A27 7703-E

10V/div AC
5s/div

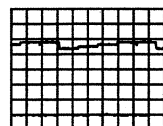
A4 M701-11

0.2V/div AC
5s/div

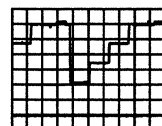
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1V/div AC
5s/div

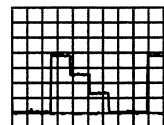
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1V/div AC
5s/div

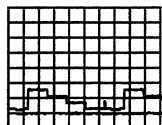
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5s/div

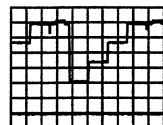
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0.2V/div AC
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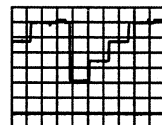
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5s/div

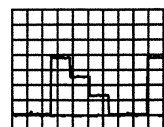
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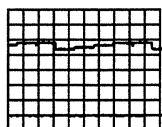
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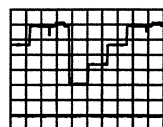
A6 M701-7

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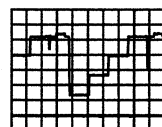
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5s/div

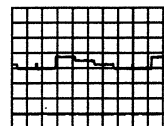
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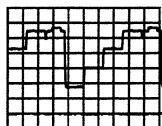
A30 F701-11

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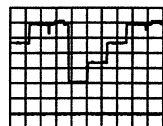
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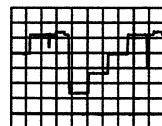
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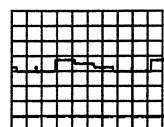
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5s/div

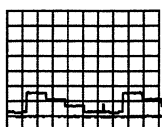
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10V/div AC
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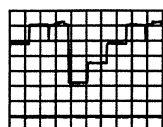
A8 7731-5

1V/div AC
5s/div

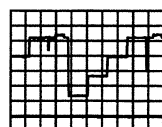
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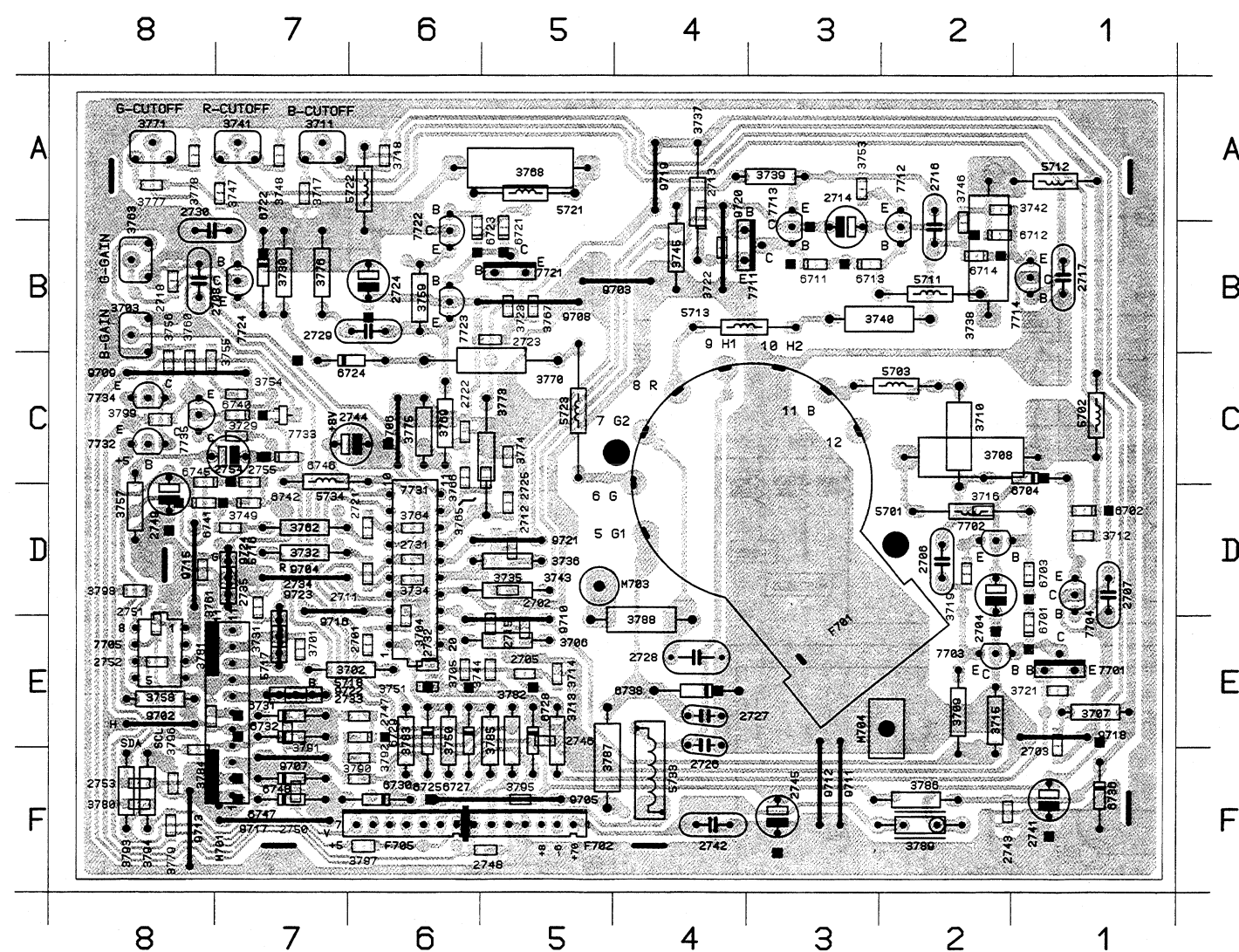
A24 7702-B

10V/div AC
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A32 F701-6

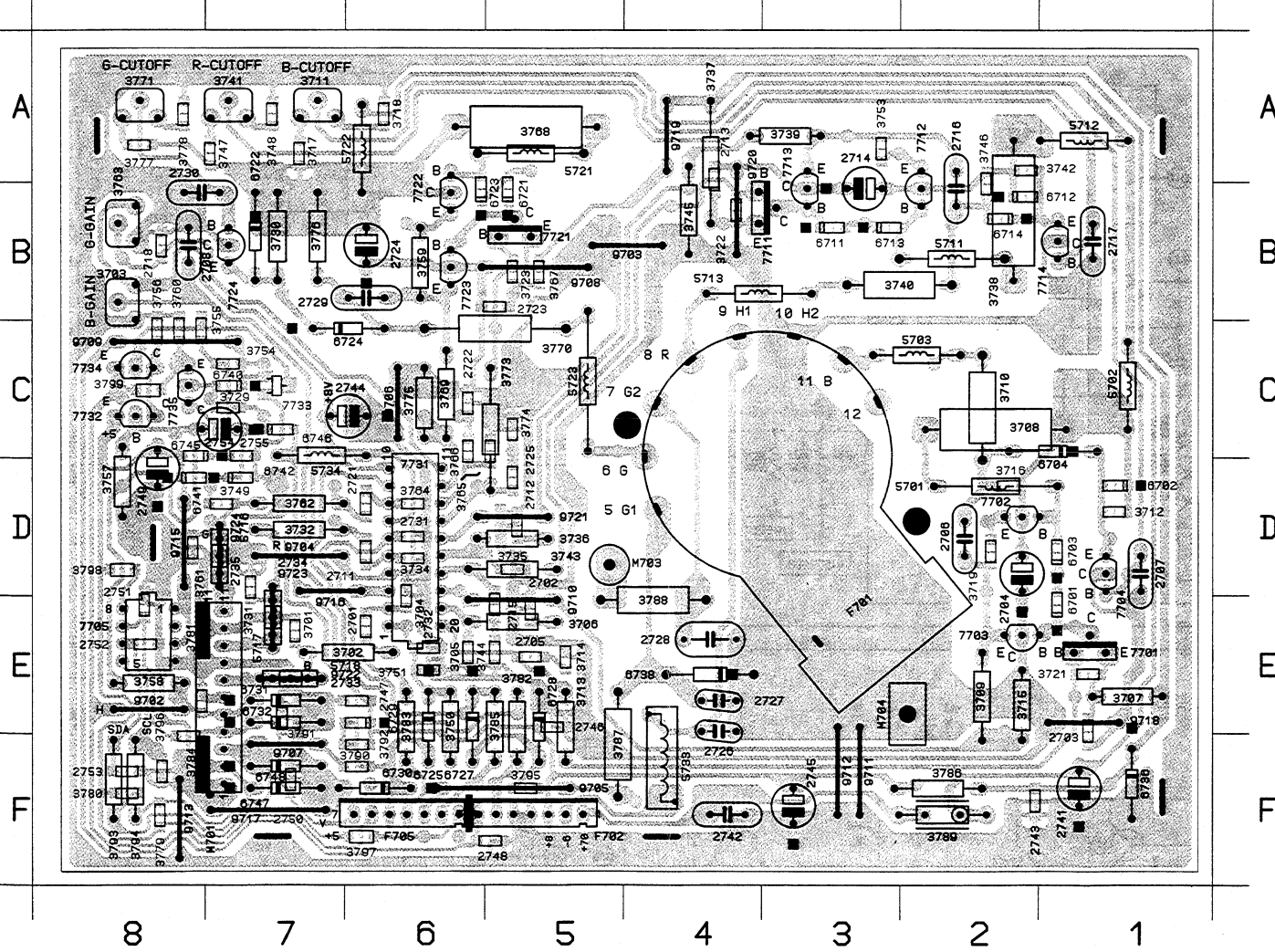
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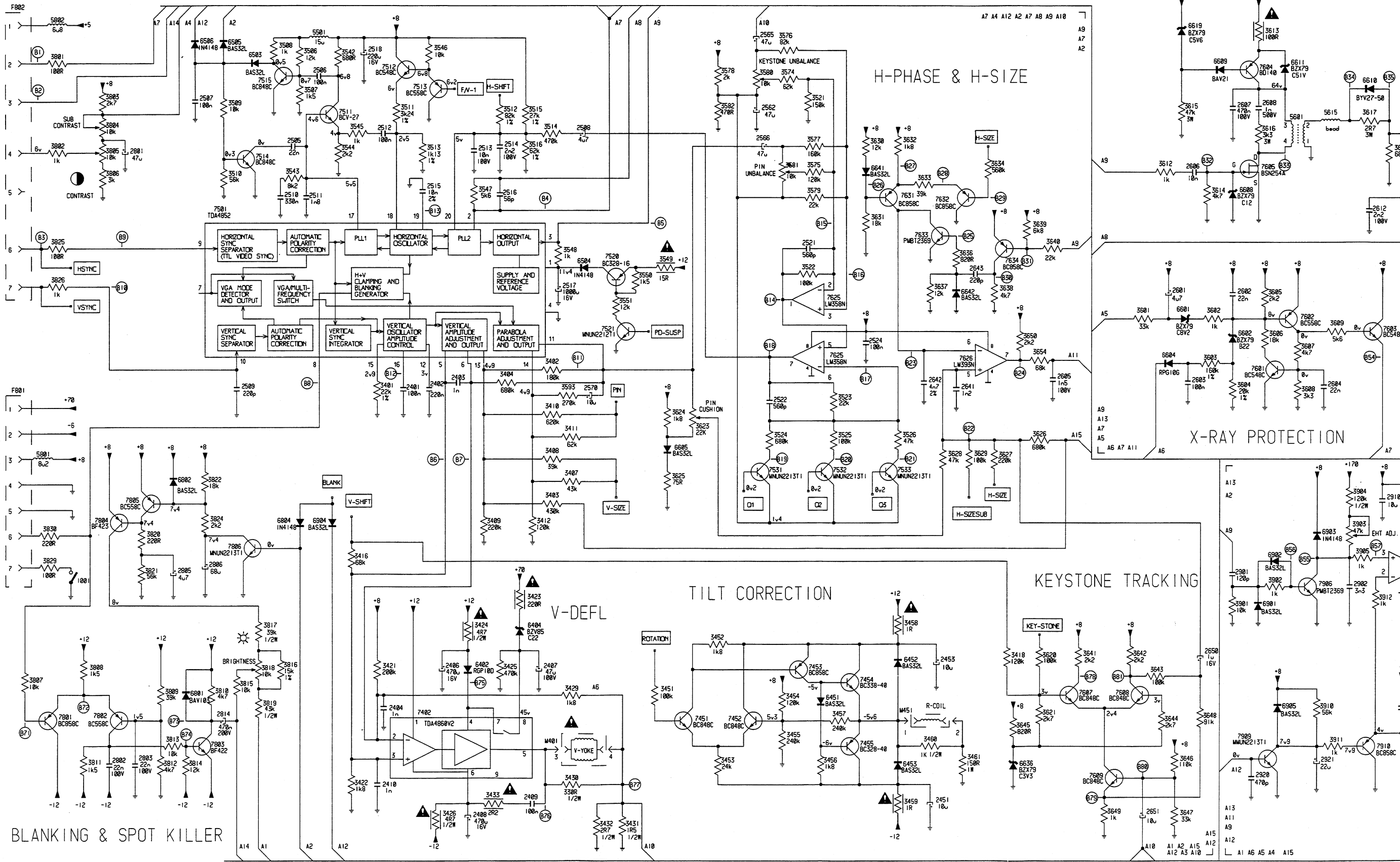
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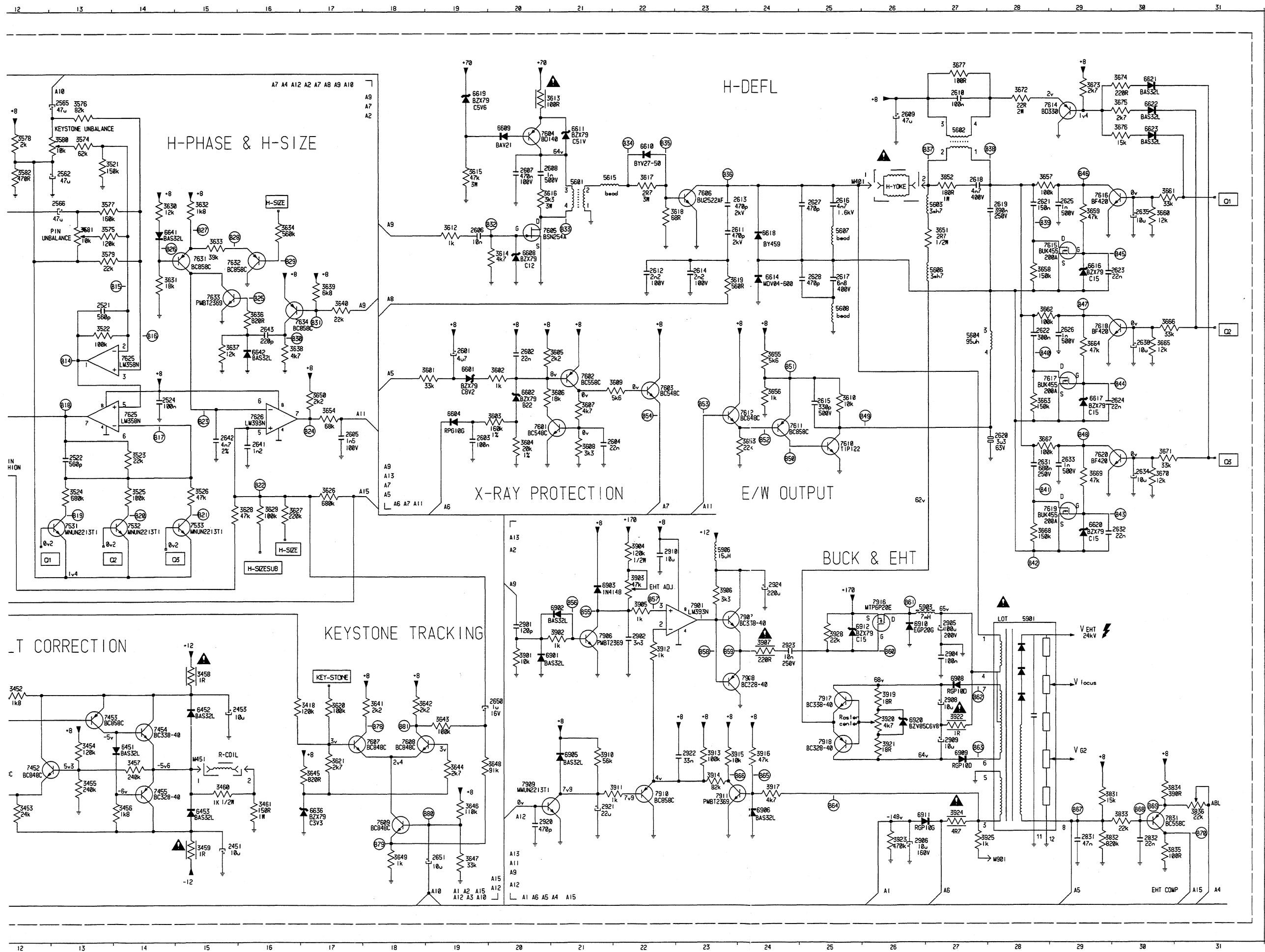
A
B
C
D
E
F

Deflection

B1

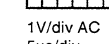
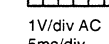
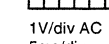
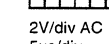
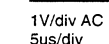
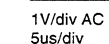
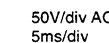
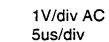
MAIN BOARD PANEL





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2404	M	3584	T13	6609	B21
2405	M	3585	T20	6610	B21
2406	M	3586	T20	6611	B21
2407	M	3587	T20	6612	B21
2408	N	3588	T20	6613	B21
2409	N	3589	T20	6614	B21
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2412	N	3592	T20	6617	B21
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2414	N	3594	T20	6619	B21
2415	N	3595	T20	6620	B21
2416	N	3596	T20	6621	B21
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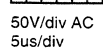
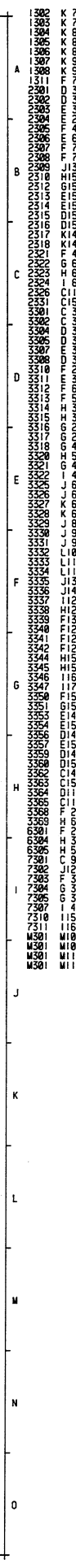
B2



DPMS LED	ON	SUSPEND	OFF
green	V	V	X
amber	X	V	V

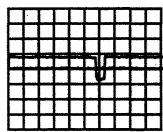
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1st	Vshift	Hsize	Hshift	Shift	+	-	Vsize
2nd	Rot	Pin	Keysl				Recall

CM1200 15A

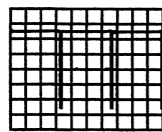


Deflection

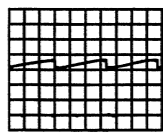
B65 7911-B

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5us/div

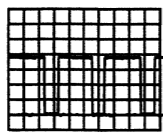
B73 7803-C

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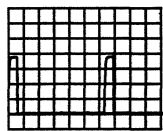
B81 7608-C

2V/div AC
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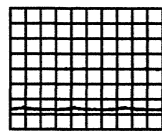
B89 7301-36

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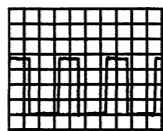
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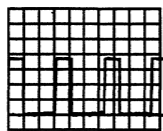
B74 7803-B

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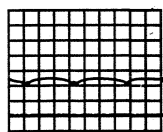
B82 7301-1

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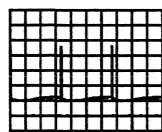
B90 7301-38

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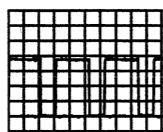
B67 5901-8

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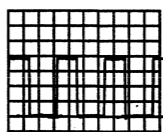
B75 7402-4

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5ms/div

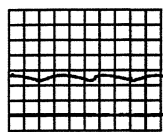
B83 7301-2

2V/div AC
5us/div

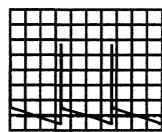
B91 7301-39

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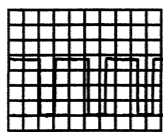
B68 7831-B

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5ms/div

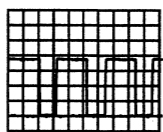
B76 7402-5

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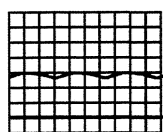
B84 7301-3

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5us/div

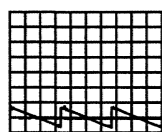
B92 7301-40

2V/div AC
5us/div

B69 7831-E

2V/div AC
5ms/div

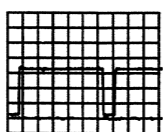
B77 M401-4

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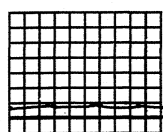
B85 7301-8

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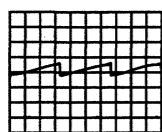
B93 7301-41

1V/div AC
5us/div

B70 7831-C

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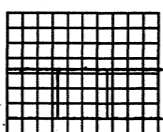
B78 7607-C

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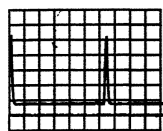
B86 7301-9

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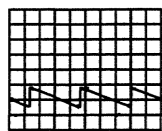
B94 7301-42

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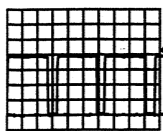
B71 7801-B

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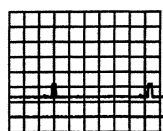
B79 7609-E

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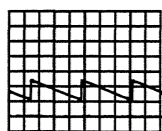
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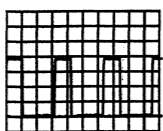
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5us/div

B80 7609-B

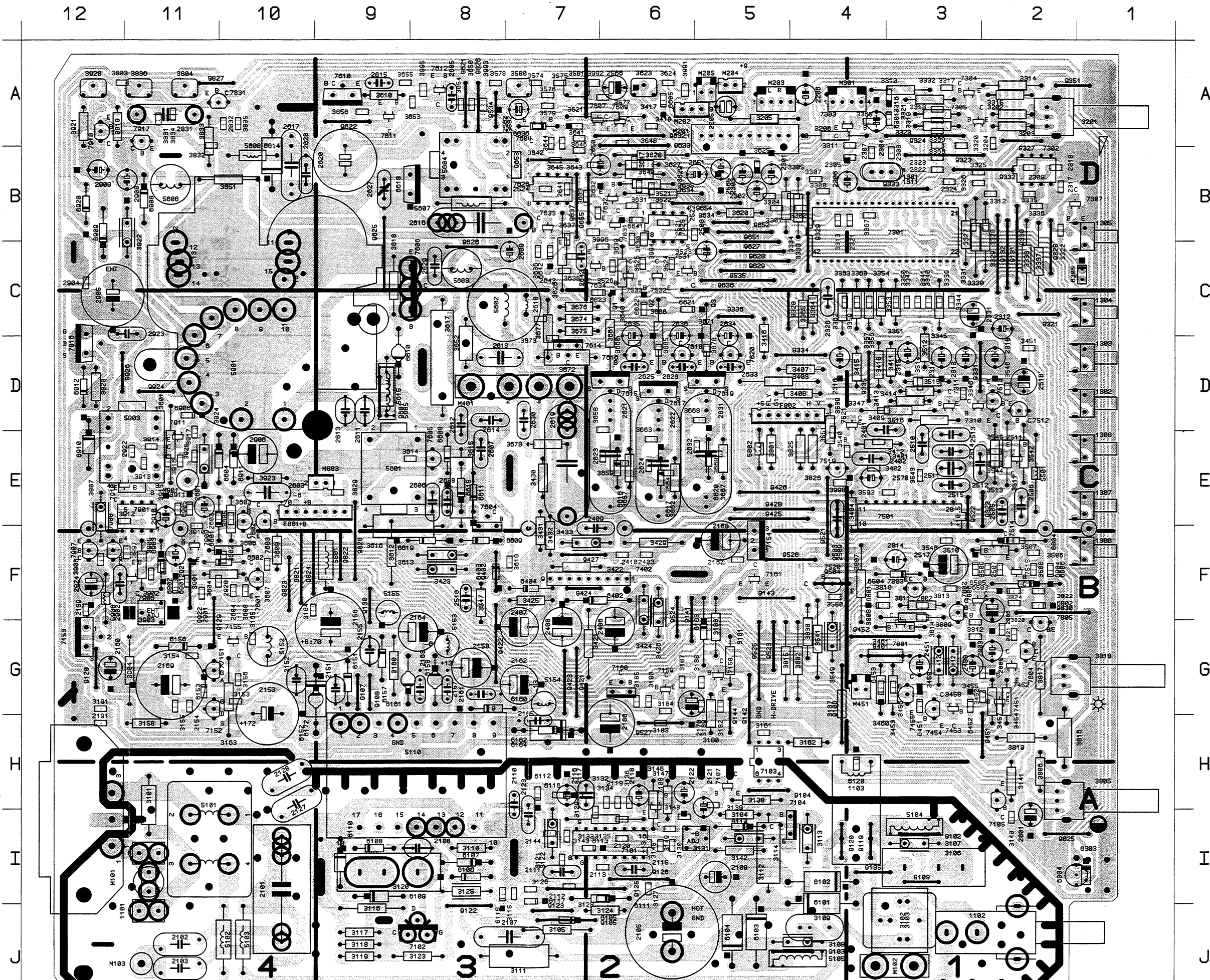
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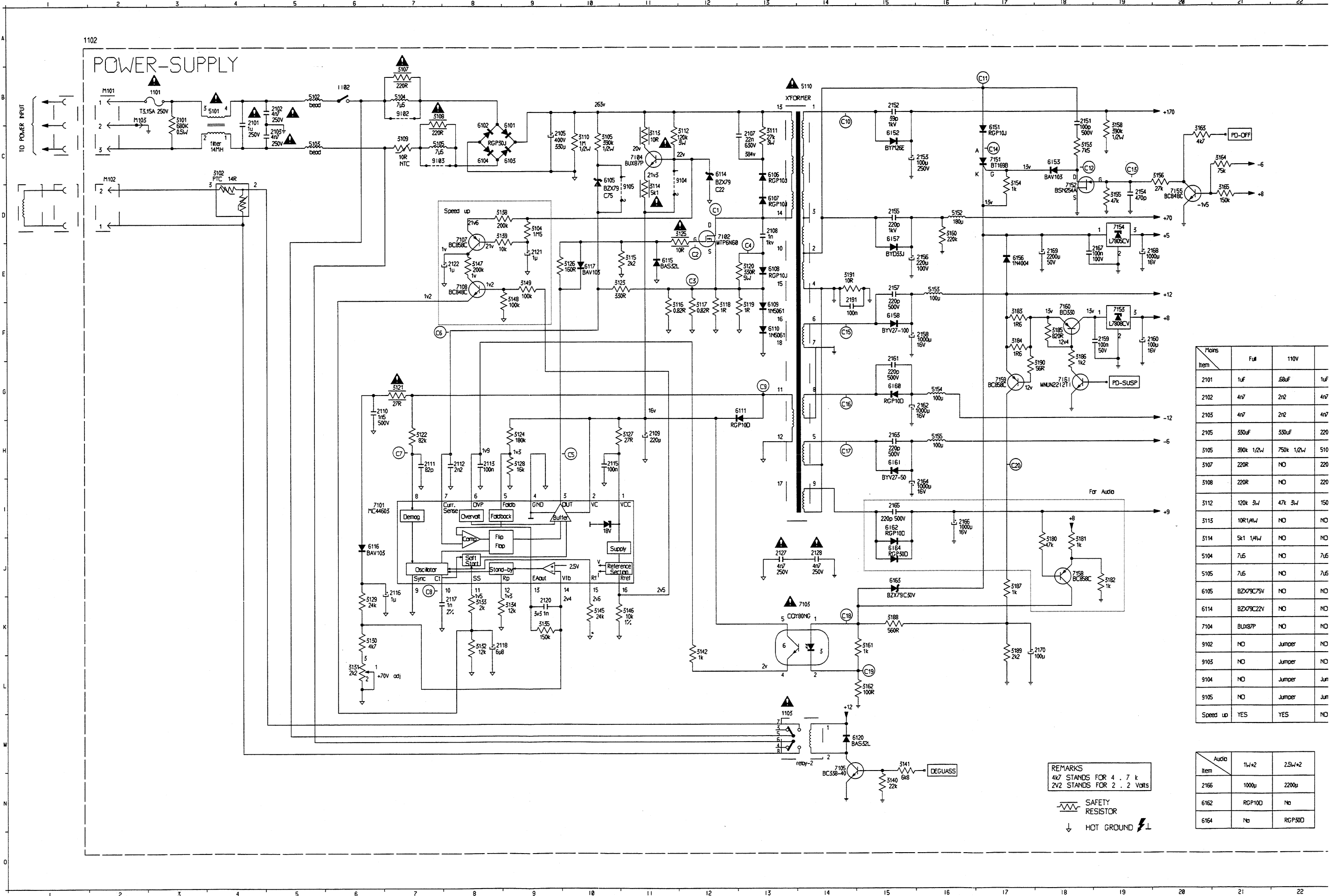
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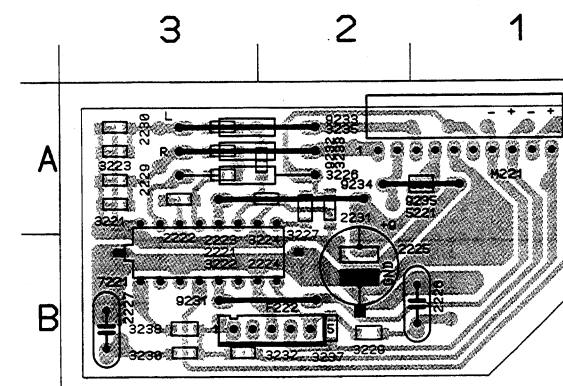
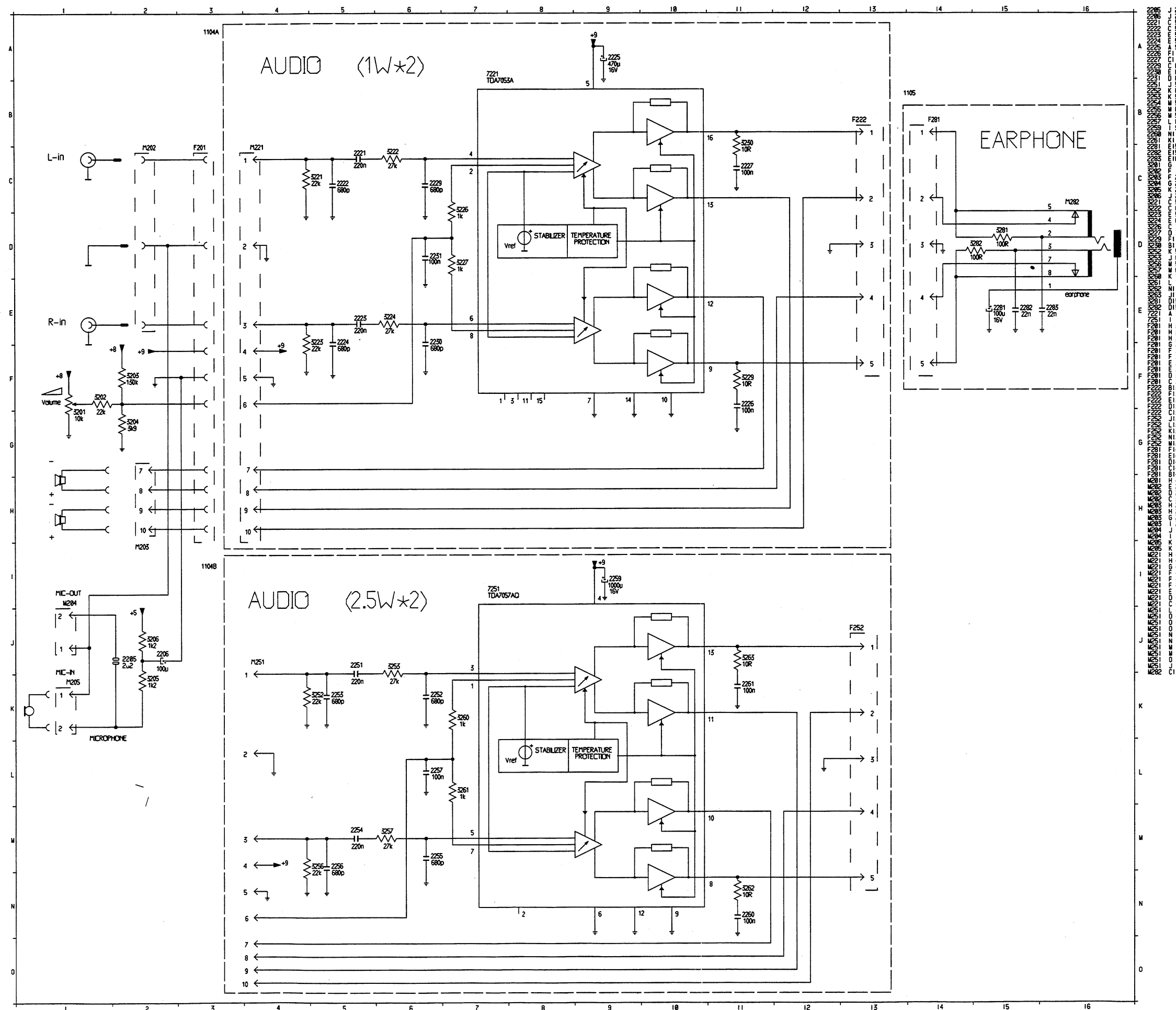
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3	3545	E	2	3317	A	3	2631	A	11	2169	G	11
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1	3604	F	11	3338	B	2	3106	I	3	2317	B	2
1	3605	F	10	3339	C	3	3107	J	3	2318	B	2
1	3606	F	10	3340	C	3	3108	J	4	2321	B	4
1	3607	F	10	3341	C	3	3109	J	4	2322	B	3
1	3608	F	10	3342	C	3	3110	I	8	2323	B	3
2	3609	F	10	3344	C	3	3111	J	8	2324	B	3
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C

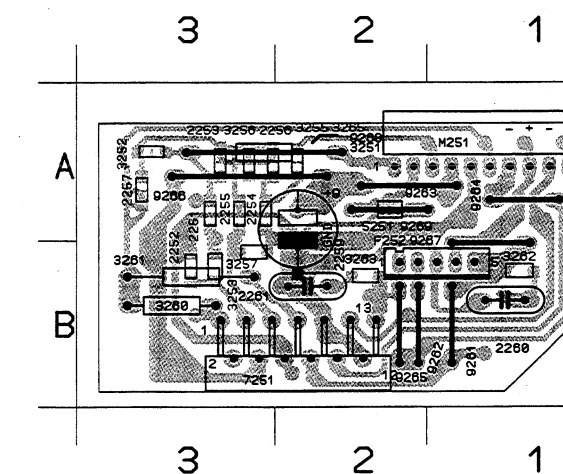


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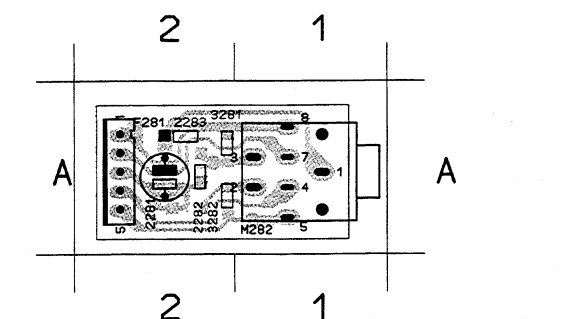


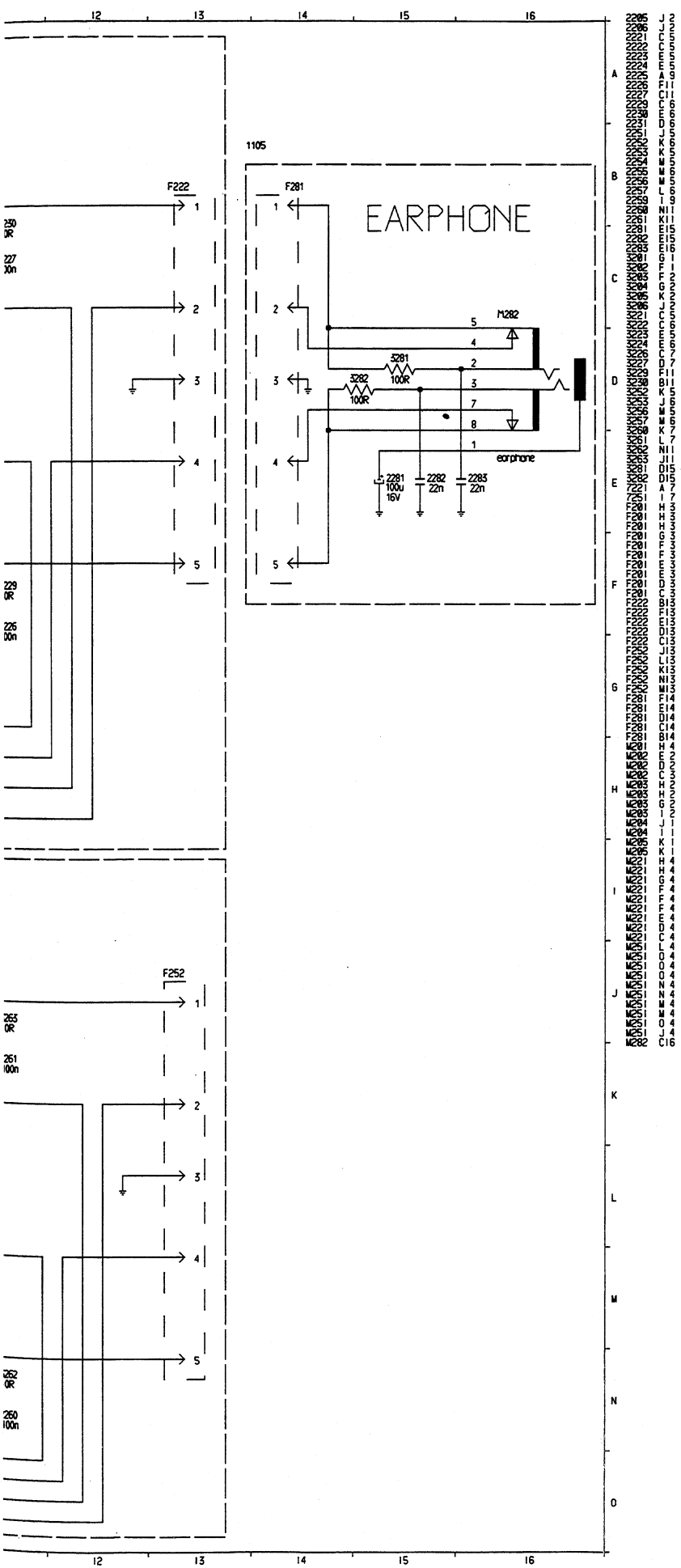
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			7221	A	3	3230	B	3	3221	A	3	2224
			9231	B	3	3232	B	3	3222	A	3	2225

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9266	A	3	3251	A	2	3256	A	3	2259	A	2	22
9267	B	1	7251	B	3	3257	B	3	2260	B	1	22
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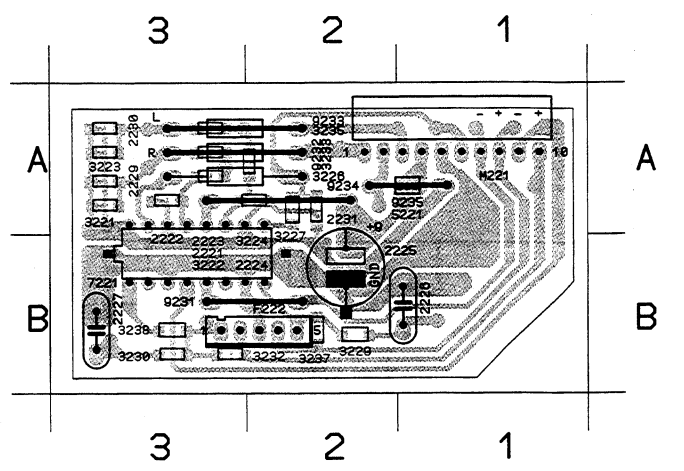


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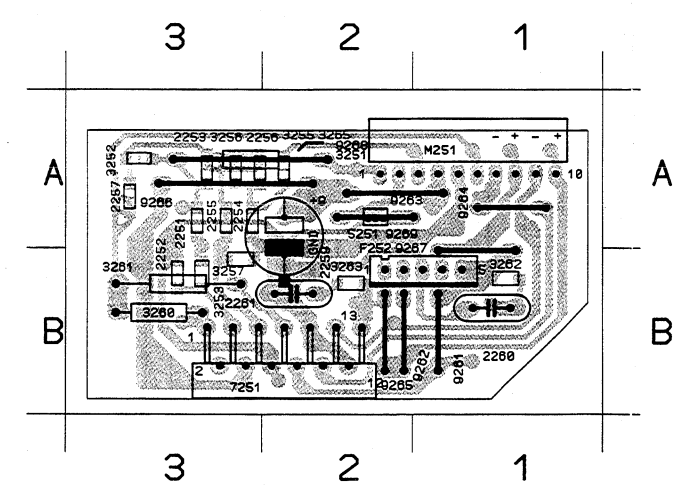




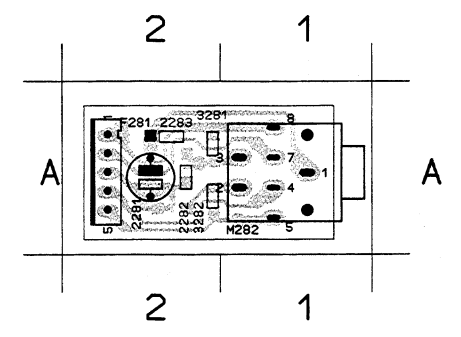
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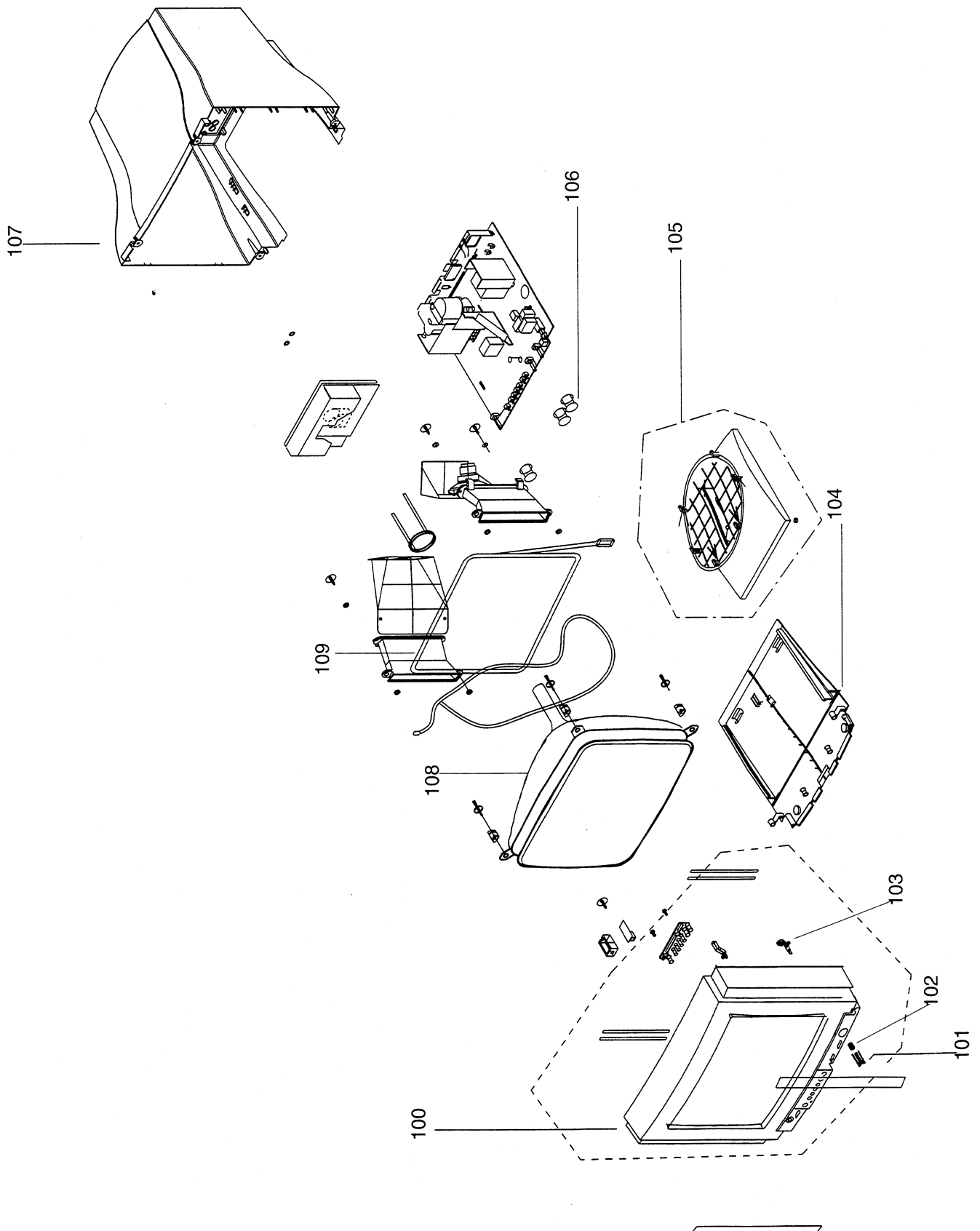
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3282 A 2 2282 A 2 F281 A 2
2283 A 2 M282 A 1
3281 A 2 2281 A 2



A series of horizontal lines for handwritten notes or additional information.



8. Spare parts list

**Parts indicated on
exploded view
15A1222W/97C**

100	4822 430 10526	FRONT ASSY
101	4822 410 63961	BUTTON,PUSH
102	4822 701 13913	SPRING
103	4822 381 11647	LENS
104	4822 701 20302	PLATE
105	4822 462 10613	PEDESTAL
106	4822 413 31878	KNOB
107	4822 438 10506	COVER,REAR
108	4822 131 20701	M36EDR320X130/ 2CFIR
109	4822 157 71388	DEGAUSSING COIL
	4822 701 20298	SCREW.SELFTAP
	4822 701 20131	BAG,DUST
	4822 381 11648	LENS
	4822 267 31991	SOCKET
	4822 240 30764	LOUDSPEAKER
	4822 240 20351	LOUDSPEAKER
	4822 458 30708	GRILL
	4822 458 30709	CABLE.CONNEC T.
	4822 321 63178	CABLE.CONNEC T.
	4822 736 60678	DFU, ON PAPER
	4822 736 60679	DFU, ON PAPER
	4822 701 20079	BAG
	4822 321 63154	CABLE.CONNEC T.
	4822 462 10612	SWIVEL
	4822 462 42033	PAD
1106	4822 526 20183	SPOILER
1109	4822 321 22552	AC-CORD
1109	4822 321 10942	AC-CORD


1102 Main panel
Various

1102	4822 212 32421	MAIN PCB
1101	4822 253 50145	19181 (3,15A)
	4822 701 20482	POWER SWITCH
	4822 265 30375	4P
	4822 492 71337	SPRING,CLAMPI NG
	4822 265 20604	2P
	4822 276 13467	SWI TACT 1P 50MA
	4822 267 51372	10 P.
	4822 265 31192	3P MALE
	4822 267 31838	2 P
	4822 265 10286	2P
	4822 462 71981	CAP
	4822 265 31206	4P
1103	4822 280 70378	RELAY
	4822 492 62076	FOR
	5322 390 20011	TRANSISTORS VET SILIC.P4 20GR
	4822 466 93161	PLATE



2101	5322 121 44212	1µF 10% 275B
2102	4822 122 33535	4.7nF 20% 400V
2103	4822 122 33535	4.7nF 20% 400V
2105	4822 124 42168	330µF 400V
2107	4822 121 70357	22nF 10% 630V
2108	4822 126 13134	1nF 10% 1KV
2109	4822 124 42149	220µF 20% 25V
2110	4822 126 12727	1.5nF 10% 500V
2111	4822 122 31237	82pF 2% 100V
2112	4822 122 31644	2.2nF 10% 63V
2113	4822 122 33496	100nF 10% 63V
2115	4822 121 43696	100nF 100V
2116	4822 124 22669	1µF 20% 50V
2117	4822 121 43066	1nF 1% 400V
2118	4822 124 81271	6µF 8 50V
2120	5322 122 31647	1nF 10% 63V
2121	4822 124 22669	1µF 20% 50V
2122	4822 124 22669	1µF 20% 50V
2127	4822 122 33535	4.7nF 20% 400V
2128	4822 122 33535	4.7nF 20% 400V
2151	4822 122 32899	100pF 10%B 500V
2152	4822 126 13615	39P 5% 2KV
2153	4822 124 80834	100µF 20% 250V
2154	4822 122 31727	470pF 2% 63V
2155	4822 126 13035	220pF 10% 2KV
2156	4822 124 80538	220µF 20% 100V
2157	4822 122 33645	220pF 500V
2158	4822 124 42172	1000µF 16V
2159	4822 122 33496	100nF 10% 63V

2160	4822 124 22678	100µF 20% 16V
2161	4822 122 33645	220pF 500V
2162	4822 124 42172	1000µF 16V
2163	4822 122 33645	220pF 500V
2164	4822 124 42172	1000µF 16V
2165	4822 122 33645	220pF 500V
2166	4822 124 81285	2200µF 20% 16V
2167	4822 122 33496	100nF 10% 63V
2168	4822 124 42172	1000µF 16V
2169	4822 124 81268	2200µF 20% 50V
2170	4822 124 22678	100µF 20% 16V
2191	4822 122 33496	100nF 10% 63V
2205	4822 121 70706	2.2µF 20% 50V
2206	4822 124 22678	100µF 20% 16V
2301	4822 124 40244	2.2µF 20% 63V
2302	4822 124 40246	4.7µF 20% 63V
2303	4822 124 40244	2.2µF 20% 63V
2304	4822 124 41659	4.7µF 20% 25V
2305	5322 122 31647	1nF 10% 63V
2306	4822 124 80235	10µF 16V
2307	4822 126 10324	33pF 2% 63V
2308	4822 126 10324	33pF 2% 63V
2309	4822 122 33496	100nF 10% 63V
2310	4822 124 42031	2.2µF 20% 25V
2312	4822 124 40239	0.47µF 20% 63V
2313	4822 124 22669	1µF 20% 50V
2314	4822 124 40763	2.2µF 100 V
2315	4822 124 40763	2.2µF 100 V
2316	4822 124 22669	1µF 20% 50V
2317	4822 122 31765	100pF 2% 63V
2318	4822 122 31765	100pF 2% 63V
2321	4822 122 32442	1nF 50V
2322	5322 122 31647	1nF 10% 63V
2323	5322 122 31647	1nF 10% 63V
2324	5322 122 31647	1nF 10% 63V
2326	5322 122 32334	220pF 10% 100V
2331	5322 124 41817	220µF 16V
2401	4822 121 43696	100nF 100V
2402	4822 121 43699	220nF 100V
2403	4822 122 31746	1nF 2% 63V
2404	4822 122 31746	1nF 2% 63V
2406	4822 124 40198	470µF 20% 16V
2407	4822 124 42359	47µF 100V
2408	4822 124 40198	470µF 20% 16V
2409	4822 121 43696	100nF 100V
2410	4822 122 31746	1nF 2% 63V
2451	4822 124 42136	10µF 25V
2453	4822 124 42136	10µF 25V
2505	4822 121 43694	22nF 100V
2506	4822 121 43696	100nF 100V
2507	4822 122 33496	100nF 10% 63V
2508	4822 124 40246	4.7µF 20% 63V
2509	5322 122 32334	220pF 10% 100V
2510	4822 121 43697	330nF 10% 100V
2511	4822 121 51166	1.8nF 2% 250V
2512	4822 121 43696	100nF 100V
2513	4822 121 43693	10nF 100V
2514	4822 121 70439	2.2nF 5% 100V
2515	4822 126 13606	10N 2% 100V
2516	4822 122 32027	56pF 2% 100V
2517	4822 124 42172	1000µF 16V
2518	5322 124 41817	220µF 16V
2521	4822 122 31773	560pF 2% 63V
2522	4822 122 31773	560pF 2% 63V
2524	4822 122 33496	100nF 10% 63V
2562	4822 124 22576	47µF 16V
2565	4822 124 22576	47µF 16V
2566	4822 124 22576	47µF 16V
2570	4822 124 42136	10µF 25V
2601	4822 124 40246	4.7µF 20% 63V
2602	4822 122 31797	22nF 10% 63V
2603	4822 121 70073	100nF 10% 250V
2604	4822 122 31797	22nF 10% 63V
2605	4822 121 70547	1.5nF 5% 100V
2606	4822 121 43693	10nF 100V
2607	4822 121 43698	470nF 100V
2608	4822 122 33968	1nF 5% 500V
2609	4822 124 22576	47µF 16V
2610	4822 122 33496	100nF 10% 63V
2611	4822 126 12267	470pF 10%R(HR) 2KV
2612	4822 121 70439	2.2nF 5% 100V
2613	4822 126 12267	470pF 10%R(HR) 2KV
2614	4822 121 70439	2.2nF 5% 100V
2615	4822 126 13739	330pF 2% 500V
2616	4822 121 70693	4.7nF 2% 1.6KV
2617	4822 121 70491	6.8nF 5% 630V
2618	4822 121 70698	4.7nF 4% 400V
2619	4822 121 70572	390nF 5% 250V
2620	4822 124 42469	3.3µF 20% 63V
2621	4822 121 70489	5nF 5% 250V
2622	4822 121 70697	300nF 5% 250V
2623	4822 122 31797	22nF 10% 63V

2624	4822 122 31797	22nF 10% 63V
2625	4822 122 32835	1nF 500V
2626	4822 122 32835	1nF 500V
2631	4822 121 70422	680nF 5% 250V
2632	4822 122 31797	22nF 10% 63V
2633	4822 122 32835	1nF 500V
2634	4822 124 80235	10µF 16V
2635	4822 124 80235	10µF 16V
2636	4822 124 80235	10µF 16V
2641	4822 122 32808	1.2nF 10% 63V
2642	4822 121 70694	4.7nF 2% 100V
2643	4822 122 31965	220pF 2% 63V
2650	4822 124 40242	1µF 20% 63V
2651	4822 124 80235	10µF 16V
2801	4822 124 80132	47µF 20% 25V
2802	4822 122 31797	22nF 10% 63V
2803	4822 122 31797	22nF 10% 63V
2805	4822 124 41659	4.7µF 20% 25V
2806	4822 124 42425	68µF 20% 25V
2814	4822 124 80886	0.47µF 20% 200V
2831	4822 121 40336	47nF 10% 250V
2832	4822 122 31797	22nF 10% 63V
2901	4822 122 31766	120pF 2% 63V
2902	4822 121 70452	3.3nF 5% 100V
2904	4822 122 33496	100nF 10% 63V
2905	4822 124 80492	100µF 20% 200V
2906	4822 124 22499	10µF 160V
2908	4822 126 13626	10µF 25V
2909	4822 126 13626	10µF 25V
2910	4822 124 22686	10µF 16V
2920	4822 122 31727	470pF 2% 63V
2921	4822 124 42199	22µF 20% 50V
2922	4822 122 31981	33nF +0.5pF 50V
2923	4822 121 70692	10nF 5% 250V
2924	4822 124 22666	220µF 20% 16V
<div></div>		
3101	4822 053 21684	680k 5% 0.5W
3102	4822 116 40259	14Ω 276V
3104	4822 116 83958	1M 5 5% 0.125W
3105	4822 051 53904	390k 1% 0.125W
3107▲	4822 052 10221	220Ω 5% 0.33W
3108▲	4822 052 10221	220Ω 5% 0.33W
3109	4822 116 30475	10Ω 15%
3110	4822 050 21005	1M 1% 0.6W
3111	4822 117 11921	27k 5% 3W
3112	4822 117 11131	120k 5% 3W
3113▲	4822 052 10109	10Ω 5% 0.33W
3114▲	4822 052 10512	5k1 5% 0.33W
3115	4822 051 20222	2k2 5% 0.1W
3116	4822 117 10747	0Ω82 5% 0.125W
3117	4822 117 10747	0Ω82 5% 0.125W
3118	4822 116 80176	1Ω 5% 0.5W
3119	4822 116 80176	1Ω 5% 0.5W
3120	4822 117 11639	330Ω 5% 5W
3121▲	4822 052 10279	27Ω 5% 0.33W
3122	4822 051 10823	82k 2% 0.25W
3123	4822 050 23301	330Ω 1% 0.6W
3124	4822 116 52252	180k 5% 0.5W
3125▲	4822 052 10109	10Ω 5% 0.33W
3126	4822 051 10161	160Ω 2% 0.25W
3127	4822 051 10279	27Ω 2% 0.25W
3128	4822 051 10163	16k 2% 0.25W
3129	4822 050 22403	24k 1% 0.6W
3130	4822 051 10472	4k7 2% 0.25W
3131	4822 100 11212	2k2 30%lin 0.1W
3132	4822 051 10123	12k 2% 0.25W
3133	4822 051 10202	2k 2% 0.25W
3134	4822 051 10123	12k 2% 0.25W
3135	4822 051 10154	150k 2% 0.25W
3138	4822 050 22004	200k 1% 0.6W
3139	4822 051 10103	10k 2% 0.25W
3140	4822 051 10223	22k 2% 0.25W
3141	4822 050 16802	6k8 1% 0.4W
3142	4822 050 11002	1k 1% 0.4W
3145	4822 051 10243	24k 2% 0.25W
3146	4822 116 80678	10k 1%
3147	4822 050 22004	200k 1% 0.6W
3148	4822 051 10104	100k 2% 0.25W
3149	4822 051 10104	100k 2% 0.25W
3153	4822 051 10752	7k5 2% 0.25W
3154	4822 051 10102	1k 2% 0.25W
3155	4822 051 10473	47k 2% 0.25W
3156	4822 051 10273	27k 2% 0.25W
3158	4822 051 53904	390k 1% 0.125W
3160	4822 116 81849	220k 5%
3161	4822 051 10102	1k 2% 0.25W
3162	4822 050 21001	100Ω 1% 0.6W
3163	4822 050 24702	47k 1% 0.6W
3164	4822 051 10753	75k 2% 0.25W
3165	4822 051 10154	150k 2% 0.25W
3180	4822 050 24703	47k 1% 0.6W
3181	4822 050 11002	1k 1% 0.4W
3182	4822 051 10102	1k 2% 0.25W

3455	4822 051 10244	240k 2% 0.25W	3655	4822 051 10622	6k2 2% 0.25W	5152	4822 156 21399	COIL	6920	4822 130 33657	BZV85-C6V8
3456	4822 051 10182	1k8 2% 0.25W	3656	4822 051 10102	1k 2% 0.25W	5153	4822 157 52234	100µH			
3457	4822 050 22404	240k 1% 0.6W	3657	4822 116 52234	100k 5% 0.5W	5154	4822 157 52234	100µH			
3458	4822 052 10108	1Ω 5% 0.33W				5155	4822 157 52234	100µH			
3459	4822 052 10108	1Ω 5% 0.33W	3658	4822 051 10154	150k 2% 0.25W	5501	4822 157 52496	COIL			
3460	4822 050 21002	1k 1% 0.6W	3659	4822 051 10473	47k 2% 0.25W	5601	4822 140 10455	TRANSF.DRIVER	7101	4822 209 90025	MC44603P
3506	4822 051 10123	12k 2% 0.25W	3660	4822 051 10123	12k 2% 0.25W	5602	4822 157 71821	COIL	7102	4822 130 63445	MTP6N60
3507	4822 051 10152	1k5 2% 0.25W	3661	4822 116 52271	33k 5% 0.5W	5603	4822 157 71818	COIL		4822 492 71345	CLAMP
3508	4822 051 10102	1k 2% 0.25W	3662	4822 116 52234	100k 5% 0.5W	5604	4822 157 71817	COIL		5322 390 20011	VET SILIC.P4 20GR
3509	4822 051 10103	10k 2% 0.25W	3663	4822 051 10154	150k 2% 0.25W	5606	4822 157 71818	COIL		4822 267 31989	JACK
3510	4822 050 25603	56k 1% 0.6W	3664	4822 051 10473	47k 2% 0.25W	5607	4822 157 71816	COIL		4822 277 21723	SWITCH,SLIDE
3511	4822 050 23242	3k24 1% 0.6W	3665	4822 051 10123	12k 2% 0.25W	5608	4822 157 71816	COIL	7103	4822 130 80908	CNX62A
3512	4822 116 80945	82k 1%	3666	4822 116 52271	33k 5% 0.5W	5615	4822 157 70705	COIL	7104	4822 130 70025	BUX87P
3513	4822 050 21132	1k13 1% 0.6W	3667	4822 116 52234	100k 5% 0.5W	5801	4822 152 20627	COIL,CHOKO	7105	5322 130 44779	BC338-40
3514	4822 051 10474	470k 2% 0.25W				5802	4822 157 52494	COIL	7107	4822 130 42513	BC858C
3515	4822 050 22703	27k 1% 0.6W	3668	4822 051 10154	150k 2% 0.25W				7108	5322 130 42136	BC848C
3516	4822 050 26203	62k 1% 0.6W	3669	4822 051 10473	47k 2% 0.25W				7151	4822 130 20297	BT169B
			3670	4822 051 10123	12k 2% 0.25W	5901	4822 140 10539	TRANSF.LINE	7152	4822 130 63081	BSN254A
3521	4822 051 10154	150k 2% 0.25W	3671	4822 116 52271	33k 5% 0.5W	5906	4822 157 52496	COIL	7153	4822 209 72743	L7800A
3522	4822 051 10104	100k 2% 0.25W	3672	4822 117 10403	22Ω 2W				7154	4822 209 80817	L7805CV
3523	4822 051 10223	22k 2% 0.25W	3673	4822 051 10272	2k7 2% 0.25W				7155	5322 130 42136	BC848C
3524	4822 111 90368	680k 2% 0.125W	3674	4822 116 52215	220Ω 5% 0.5W				7158	4822 130 42513	BC858C
3525	4822 051 10104	100k 2% 0.25W	3675	4822 050 12702	2k7 1% 0.4W				7159	4822 130 42513	BC858C
3526	4822 051 10473	47k 2% 0.25W	3676	4822 050 11503	15k 1% 0.4W				7160	5322 130 44752	BD330
3542	4822 050 16801	680Ω 1% 0.4W	3677	4822 050 21001	100Ω 1% 0.6W	6101	4822 130 80572	RGP30J	7161	4822 130 63732	MMUN2212
3543	4822 051 10822	8k2 2% 0.25W	3801	4822 050 21001	100Ω 1% 0.6W	6102	4822 130 80572	RGP30J	7301	4822 209 90886	MC68HC705-BD3
3544	4822 051 20222	2k2 5% 0.1W	3802	4822 050 11002	1k 1% 0.4W	6103	4822 130 80572	RGP30J	7302	4822 209 30976	ST24C02CB6
3545	4822 051 10102	1k 2% 0.25W	3803	4822 051 10272	2k7 2% 0.25W	6104	4822 130 80572	RGP30J	7303	5322 130 42136	BC848C
			3804	4822 100 11141	10k 30%lin 0.1W	6105	4822 130 34685	BZX79-C75 (COL)	7304	4822 130 42513	BC858C
3546	4822 051 10103	10k 2% 0.25W	3805	4822 100 11895	10k 30%lin 0.1W	6106	4822 130 31393	RGP10J	7305	4822 130 42136	BC848C
3547	4822 116 52289	56k 5% 0.5W	3806	4822 050 23002	3k 1% 0.6W	6107	4822 130 31393	RGP10J	7307	4822 130 63732	MMUN2212
3548	4822 051 10102	1k 2% 0.25W	3807	4822 050 21003	10k 1% 0.6W	6108	4822 130 31393	RGP10J	7310	5322 130 42136	BC848C
3549	4822 052 10159	15Ω 5% 0.33W	3808	4822 050 21502	1k5 1% 0.6W	6109	4822 130 31393	1N5061	7311	5322 130 42136	BC848C
3550	4822 051 10152	1k5 2% 0.25W	3809	4822 050 23903	39k 1% 0.6W	6110	4822 130 31393	1N5061	7402	4822 209 31676	TDA4860/V2
3551	4822 051 10123	12k 2% 0.25W	3810	4822 051 10472	4k7 2% 0.25W				1301	4822 242 82205	4MHz
3574	4822 051 56203	62k 1% 0.125W	3811	4822 050 21502	1k5 1% 0.6W	6111	4822 130 31607	RGP10D	7451	5322 130 42136	BC848C
3575	4822 051 10124	120k 2% 0.25W	3812	4822 051 10472	4k7 2% 0.25W	6114	4822 130 34441	BZX79-C22 (COL)	7452	5322 130 42136	BC848C
3576	4822 051 10823	82k 2% 0.25W	3813	4822 051 10103	10k 2% 0.25W	6115	4822 130 80446	BAS32L	7453	4822 130 42513	BC858C
3577	4822 051 10164	160k 2% 0.25W	3814	4822 051 10123	12k 2% 0.25W	6116	4822 130 80877	BAV103	7454	4822 130 44779	BC338-40
			3815	4822 050 21003	10k 1% 0.6W	6120	4822 130 80446	BAS32L	7455	4822 130 41715	BC328-40
3578	4822 051 10202	2k 2% 0.25W	3816	4822 116 51255	15k 0.5% 0.4W	6151	4822 130 31393	RGP10J	7501	4822 209 32913	TD4852/V1
3579	4822 051 10223	22k 2% 0.25W	3817	4822 050 23904	390k 1% 0.6W	6152	4822 130 70024	BYM26E	7511	4822 130 61129	BCV27
3580	4822 100 11141	10k 30%lin 0.1W	3818	4822 100 90081	10k8 20%	6153	4822 130 80877	BAV103	7512	4822 130 44196	BC548C
3581	4822 100 11141	10k 30%lin 0.1W	3819	4822 117 11923	43k 5% 0.5W	6156	4822 130 83362	1N4004GP			
3582	4822 051 10471	470Ω 2% 0.25W	3820	4822 051 10221	220Ω 2% 0.25W				7513	5322 130 60068	BC558C
3593	4822 051 10274	270k 2% 0.25W	3821	4822 051 10563	56k 2% 0.25W	6157	4822 130 42606	BYD33J	7514	5322 130 42136	BC848C
3601	4822 116 52271	33k 5% 0.5W	3822	4822 051 20183	18k 5% 0.1W	6158	4822 130 31982	BYV27-100	7515	5322 130 42136	BC848C
3602	4822 051 10102	1k 2% 0.25W	3824	4822 051 20222	2k2 5% 0.1W	6160	4822 130 31607	RGP10D	7520	4822 130 41023	BC328-16
3603	4822 050 21604	160k 1% 0.6W	3825	4822 050 21001	100Ω 1% 0.6W	6161	5322 130 32184	BYV27-50	7521	4822 130 63732	MMUN2212
3604	4822 050 22003	20k 1% 0.6W	3826	4822 050 11002	1k 1% 0.4W	6163	4822 130 80928	BZX79-C30 (COL)	7531	4822 701 20474	MMUN2213
			3829	4822 051 10101	100Ω 2% 0.25W	6164	4822 130 81062	RGP30D	7532	4822 701 20474	MMUN2213
3605	4822 051 20222	2k2 5% 0.1W	3830	4822 116 52215	220Ω 5% 0.5W	6301	4822 130 80446	BAS32L	7533	4822 701 20474	MMUN2213
3606	4822 116 52251	18k 5% 0.5W	3831	4822 051 10153	15k 2% 0.25W	6304	4822 130 83789	L-59YGC	7601	4822 130 44196	BC548C
3607	4822 051 10472	4k7 2% 0.25W	3832	4822 051 10824	820k 2% 0.25W	6305	4822 130 33742	LT4234	7602	5322 130 60068	BC558C
3608	4822 051 10332	3k3 2% 0.25W	3833	4822 050 22203	22k 1% 0.6W	6402	4822 130 31607	RGP10D			
3609	4822 116 52289	56k 5% 0.5W	3834	4822 051 10391	390Ω 2% 0.25W	6404	5322 130 33636	BZV85-C22	7603	4822 130 44196	BC548C
3610	4822 050 21003	10k 1% 0.6W	3835	4822 051 10101	100Ω 2% 0.25W	6451	4822 130 80446	BAS32L	7604	4822 130 40824	BD140
3612	4822 050 11002	1k 1% 0.4W	3836	4822 100 11585	22k 30%LIN 0.1W	6452	4822 130 80446	BAS32L	7605	4822 130 63081	BSN254A
3613	4822 052 10101	100Ω 5% 0.33W	3901	4822 051 10103	10k 2% 0.25W	6453	4822 130 80446	BAS32L	7606	4822 130 63891	BU2522AF
3614	4822 051 10472	4k7 2% 0.25W	3902	4822 051 10102	1k 2% 0.25W	6503	4822 130 80446	BAS32L	7607	5322 130 42136	BC848C
3615	4822 117 11493	47k 3W	3903	4822 100 11392	47k 30%lin 0.1W	6504	4822 130 30621	1N4148 (COL)	7608	5322 130 42136	BC848C
			3904	4822 050 21204	120k 1% 0.6W	6505	4822 130 80446	BAS32L	7609	5322 130 42136	BC848C
3616	4822 116 83931	3.3k 3W	3905	4822 050 11002	1k 1% 0.4W	6506	4822 130 30621	1N4148 (COL)	7610	5322 130 60082	TIP122
3617	4822 117 11922	22Ω 5% 3W	3906	4822 051 10332	3k3 2% 0.25W	6601	4822 130 34382	BZX79-C8V2 (COL)		4822 492 62076	FOR
3618	4822 050 26809	68Ω 1% 0.6W	3907	4822 052 10221	220Ω 5% 0.33W	6602	4822 130 34441	BZX79-B22		5322 390 20011	VET SILIC.P4 20GR
3619	4822 051 10561	560Ω 2% 0.25W								4822 466 93161	PLATE
3620	4822 116 52234	100k 5% 0.5W	3910	4822 051 10563	56k 2% 0.25W	6604	4822 130 42489	RGP10G	7611	4822 130 42136	BC858C
3621	4822 051 10272	2k7 2% 0.25W	3911	4822 051 10102	1k 2% 0.25W	6605	4822 130 80446	BAS32L	7612	5322 130 42136	BC848C
3623	4822 100 11585	22k 30%LIN 0.1W	3912	4822 051 10102	1k 2% 0.25W	6608	4822 130 34197	BZX79-C12 (COL)	7614	5322 130 44752	BD330
3624	4822 051 10182	1k8 2% 0.25W	3913	4822 051 10104	100k 2% 0.25W	6610	4822 130 30284	BAV21 (COL)	7615	4822 130 63533	BUK455-200A
3625	4822 051 10759	75Ω 2% 0.25W	3914	4822 051 10823	82k 2% 0.25W	6611	4822 130 34257	BZX79-C51 (COL)			
3626	4822 050 16804	680k 1% 0.4W	3915	4822 051 10103	10k 2% 0.25W	6614	4822 130 83876	MDV04-600	7616	4822 130 42148	BF420
			3916	4822 051 10473	47k 2% 0.25W	6616	4822 130 34281	BZX79-C15 (COL)	7617	4822 130 63533	BUK455-200A
3627	4822 116 81849	220k 5%	3917	4822 051 10472	4k7 2% 0.25W	6617	4822 130 34281	BZX79-C15 (COL)	7618	4822 130 42148	BF420
3628	4822 050 24703	47k 1% 0.6W	3919	4822 050 21809	18Ω 1% 0.6W	6618	4822 130 83812	BY459-1500	7619	4822 130 63533	BUK455-200A
3629	4822 116 52234	100k 5% 0.5W	3920	5322 100 11542	4k7 30%lin 0.1W	6619	4822 130 34173	BZX79-C5V6 (COL)	7620	4822 130 42148	BF420
3630											

7916	4822 130 63882	MTP6P20E
	5322 390 20011	VET SILIC.P4
		20GR
7917	5322 130 44779	BC338-40
7918	4822 130 41715	BC328-40

1103 Video panel

Various

1103	4822 212 32264	VIDEO PCB
	4822 265 20366	CONNECTOR
	4822 265 41424	11P
	4822 255 70292	SOCKET FOR CRT

—II—

2701	4822 122 31797	22nF 10% 63V
2702	4822 126 10324	33pF 2% 63V
2703	4822 122 31797	22nF 10% 63V
2704	4822 124 42147	10µF 20% 100V
2705	4822 122 31772	47pF 2% 63V
2706	4822 121 43699	220nF 100V
2707	4822 121 43696	100nF 100V
2708	4822 121 43696	100nF 100V
2711	4822 122 31797	22nF 10% 63V
2712	4822 126 10324	33pF 2% 63V

2713	4822 122 31797	22nF 10% 63V
2714	4822 124 42147	10µF 20% 100V
2715	4822 122 31772	47pF 2% 63V
2716	4822 121 43699	220nF 100V
2717	4822 121 43696	100nF 100V
2718	4822 122 33496	100nF 10% 63V
2721	4822 122 31797	22nF 10% 63V
2722	4822 126 10324	33pF 2% 63V
2723	4822 122 31797	22nF 10% 63V
2724	4822 124 42147	10µF 20% 100V

2725	4822 122 31772	47pF 2% 63V
2726	4822 126 10757	22nF 20% 50V
2727	4822 122 30031	820pF 10% 500V
2728	4822 126 12267	470pF 10%R(HR) 2Kv

2729	4822 121 43699	220nF 100V
2730	4822 121 43696	100nF 100V
2731	4822 122 31797	22nF 10% 63V
2732	4822 122 31797	22nF 10% 63V
2741	4822 124 42147	10µF 20% 100V
2742	4822 121 43693	10nF 100V

2743	4822 122 31797	22nF 10% 63V
2744	4822 124 42145	100µF 20% 25V
2745	4822 124 22681	47µF 20% 16V
2746	4822 122 33496	100nF 10% 63V
2747	4822 122 32442	10nF 50V
2748	4822 122 33496	100nF 10% 63V
2749	4822 124 22681	47µF 20% 16V
2750	4822 122 31965	220pF 2% 63V
2751	4822 122 31766	120pF 2% 63V
2752	4822 122 31766	120pF 2% 63V

2753	4822 122 31766	120pF 2% 63V
2754	4822 124 22681	47µF 20% 16V
2755	4822 122 33496	100nF 10% 63V

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3701	4822 051 10759	75Ω 2% 0.25W
3702	4822 116 52215	220Ω 5% 0.5W
3703	4822 100 11141	10k 30%lin 0.1W
3704	4822 051 10106	10M 5% 0.25W
3705	4822 051 10569	56Ω 2% 0.25W
3706	4822 050 21001	100Ω 1% 0.6W
3707	4822 050 24709	47Ω 1% 0.6W
3708	4822 117 11924	1k8 5% 3W
3709	4822 117 11925	75k 1%
3710	4822 111 50618	82Ω 10% 0.5W

3711	5322 100 11543	47k 30%lin 0.1W
3712	4822 051 10104	100k 2% 0.25W
3713	4822 050 11509	15Ω 1% 0.4W
3714	4822 051 10479	47Ω 2% 0.25W
3715	4822 116 82455	7k5 0.25W
3716	4822 051 10474	470k 2% 0.25W
3717	4822 051 10223	22k 2% 0.25W
3718	4822 051 10563	56k 2% 0.25W
3719	4822 051 10829	82Ω 2% 0.25W
3721	4822 051 10681	680Ω 2% 0.25W

3722	4822 051 10681	680Ω 2% 0.25W
3723	4822 051 10681	680Ω 2% 0.25W
3729	4822 051 10682	6k8 2% 0.25W
3730	4822 116 52234	100k 5% 0.5W
3731	4822 051 10759	75Ω 2% 0.25W
3732	4822 116 52215	220Ω 5% 0.5W
3734	4822 051 10106	10M 5% 0.25W
3735	4822 051 10569	56Ω 2% 0.25W
3736	4822 116 52197	56Ω 5% 0.5W

3737	4822 050 24709	47Ω 1% 0.6W
3738	4822 117 11924	1k8 5% 3W
3739	4822 117 11925	75k 1%
3740	4822 111 50618	82Ω 10% 0.5W
3741	5322 100 11543	47k 30%lin 0.1W
3742	4822 051 10104	100k 2% 0.25W
3743	4822 050 11509	15Ω 1% 0.4W
3744	4822 051 10479	47Ω 2% 0.25W
3745	4822 116 82455	7k5 0.25W
3746	4822 051 10474	470k 2% 0.25W
3747	4822 051 10223	22k 2% 0.25W

3748	4822 051 10563	56k 2% 0.25W
3749	4822 051 10181	180Ω 2% 0.25W
3750	4822 116 52289	5k6 5% 0.5W
3751	4822 051 10432	4k3 2% 0.25W
3753	4822 051 10829	82Ω 2% 0.25W
3754	4822 051 10472	4k7 2% 0.25W
3755	4822 051 10223	22k 2% 0.25W
3756	4822 051 10102	1k 2% 0.25W
3757	4822 050 22704	270k 1% 0.6W
3758	4822 050 21001	100Ω 1% 0.6W

3759	4822 050 18209	82Ω 1% 0.4W
3760	4822 051 10562	5k6 2% 0.25W
3761	4822 051 10759	75Ω 2% 0.25W
3762	4822 116 52215	220Ω 5% 0.5W
3763	4822 100 11141	10k 30%lin 0.1W
3764	4822 051 10106	10M 5% 0.25W
3765	4822 051 10569	56Ω 2% 0.25W
3766	4822 051 10101	100Ω 2% 0.25W
3767	4822 051 10479	47Ω 2% 0.25W
3768	4822 117 11924	1k8 5% 3W

3769	4822 117 11925	75k 1%
3770	4822 111 50618	82Ω 10% 0.5W
3771	5322 100 11543	47k 30%lin 0.1W
3773	4822 050 11509	15Ω 1% 0.4W
3774	4822 051 10479	47Ω 2% 0.25W
3775	4822 116 82455	7k5 0.25W
3776	4822 050 14704	470k 1% 0.4W
3777	4822 051 10223	22k 2% 0.25W
3778	4822 051 10563	56k 2% 0.25W
3779	4822 051 10473	47k 2% 0.25W

3780	4822 051 10473	47k 2% 0.25W
3781	4822 051 10472	4k7 2% 0.25W
3782	4822 050 24701	470Ω 1% 0.6W
3783	4822 050 11002	1k 1% 0.4W
3784	4822 051 10221	220Ω 2% 0.25W
3785	4822 050 21001	100Ω 1% 0.6W
3786	4822 050 22201	220Ω 1% 0.6W
3787	4822 050 21502	1k5 1% 0.6W
3788	4822 116 80548	15k 5% 0.5W
3789	4822 052 10109	10Ω 5% 0.33W

3791	4822 051 10472	4k7 2% 0.25W
3793	4822 116 52215	220Ω 5% 0.5W
3794	4822 116 52215	220Ω 5% 0.5W
3795	4822 051 20222	2k2 5% 0.1W
3797	4822 051 10008	0Ω 5% 0.25W
3798	4822 051 10008	0Ω 5% 0.25W
3799	4822 051 10008	0Ω 5% 0.25W

5701	4822 152 20626	COIL,CHOKE
5702	4822 157 52496	COIL
5703	4822 157 53937	COIL
5711	4822 157 71824	1µH 10%
5712	4822 157 52496	COIL
5713	4822 157 53937	COIL
5716	4822 242 82202	100mH z 35R
5717	4822 242 82202	100mH z 35R
5718	4822 242 82202	100mH z 35R
5721	4822 157 53937	COIL
5722	4822 157 52496	COIL
5723	4822 157 53937	COIL
5733	4822 152 20587	7.5µH
5734	4822 157 52496	COIL

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6701	4822 130 80446	BAS32L
6702	4822 130 80877	BAV103
6703	4822 130 80446	BAS32L
6704	4822 130 30842	BAV21 (COL)
6711	4822 130 80446	BAS32L
6712	4822 130 80877	BAV103
6713	4822 130 80446	BAS32L
6714	4822 130 80877	BAV103
6721	4822 130 80446	BAS32L
6722	4822 130 30842	BAV21 (COL)

6723	4822 130 80446	BAS32L
6724	4822 130 30842	BAV21 (COL)
6727	4822 130 30621	1N4148 (COL)
6728	4822 130 30621	1N4148 (COL)
6731	4822 130 80928	BZX79-C30 (COL)
6732	4822 130 80928	BZX79-C30 (COL)

6736	4822 130 34173	BZX79-C5V6 (COL)
6738	4822 130 42489	BYD33G
6740	4822 130 80446	BAS32L
6741	4822 130 80446	BAS32L

6742	4822 130 80446	BAS32L
6745	4822 130 80446	BAS32L
6746	4822 130 80446	BAS32L
6747	4822 130 80928	BZX79-C30 (COL)
6748	4822 130 80928	BZX79-C30 (COL)



7701	4822 130 63883	2SC4732E
7702	4822 130 63444	2SD756AD
7703	4822 130 63492	2SB716AD
7704	4822 130 41646	BF423
7705	4822 209 90316	24LC21
7711	4822 130 63883	2SC4732E
7712	4822 130 63444	2SD756AD
7713	4822 130 63492	2SB716AD
7714	4822 130 41646	BF423
7721	4822 130 63883	2SC4732E

7722	4822 130 63444	2SD756AD
7723	4822 130 63492	2SB716AD
7724	4822 130 41646	BF423
7731	4822 209 90094	TDA4882/V1
7732	4822 130 41448	BF324
7733	4822 701 20474	MMUN2213
7734	4822 130 44196	BC548C
7735	4822 130 44196	BC548C

1104 Audio panel

Various

1104	4822 212 32263	AUDIO PCB
	4822 265 41402	10P MALE
	5322 390 20011	VET SILIC.P4
		20GR
	4822 492 62076	FOR TRANSISTORS

—II—

2252	4822 126 12075	680pF 2% 63V
2253	4822 126 12075	680pF 2% 63V
2255	4822 126 12075	680pF 2% 63V
2256	4822 126 12075	680pF 2% 63V
2257	4822 122 33496	100nF 10% 63V
2259	4822 124 42172	1000µF 16V
2260	4822 121 43696	100nF 100V
2261	4822 121 43696	100nF 100V

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3252	4822 051 10223	22k 2% 0.25W
3253	4822 051 10273	27k 2% 0.25W
3256	4822 051 10223	22k 2% 0.25W
3257	4822 051 10273	27k 2% 0.25W
3260	4822 050 11002	1k 1% 0.4W
3261	4822 050 11002	1k 1% 0.4W
3262	4822 051 10109	10Ω 2% 0.25W
3263	4822 051 10109	10Ω 2% 0.25W
3265	4822 051 10008	0Ω 5% 0.25W

1105 Earphone panel

Various

1105	4822 212 32419	EARPHONE PCB
	4822 267 31526	JACK

—II—

2281	4822 124 80833	100µF 20% 16V
2282	4822 122 31797	22nF 10% 63V
2283	4822 122 31797	22nF 10% 63V

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3281	4822 051 10101	100Ω 2% 0.25W
3282	4822 051 10101	100Ω 2% 0.25W